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FERTILIZER ANALYSES

Pages 4-23.

FERTILIZER REGISTRATIONS, Pages 24-34.

H. B. McDONNELL, State Chemist.

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ADDRESS

School of Chemistry, Maryland State College of Agriculture
COLLEGE PARK, MD.

ANALYSES OF

Fertilizers Sold in Maryland

BY THE SCHOOL OF CHEMISTRY

UNIVERSITY OF MARYLAND

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The tableson the following pages are made up of the results of the Analysis of fertilizers from August, 1920, to January, 1921, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer, his name, or initials, will be found after the "place of sampling." If "place of sampling" is not given, the sample has been made up two or more samples taken at different places. Before sending samples of fertilizer for analysis, farmers should always send for blank forms and directions, stating the number of blanks wanted. One blank is required for each sample. No sample will be analyzed unless taken and sent as required by law.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential parts of the guarantee as stamped on the bags.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory: the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the following schedule:

*Resigned December 15.

SCHEDULE FOR CALCULATING COMPARATIVE VALUES.

In Mixed Fertilizers:

For Nitrogen, calculated as Ammonia	50 cts.	per lb.,	$10.00 per unit
For Potash (K_2O)	20 cts.	per lb.,	4.00 per unit
For Available Phosphoric Acid	10 cts.	per lb.,	2.00 per unit
For Insoluble Phosphoric Acid	2 cts.	per lb.,	0.40 per unit
For Insoluble Phosphoric Acid when from rock	1 ct.	per lb.,	0.20 per unit

In Dissolved Rock:

Available Phosphoric Acid	10 cts.	per lb.,	2.00 per unit
Insoluble Phosphoric Acid	1 ct.	per lb.,	0.20 per unit

In Tankage:

For Nitrogen, calculated as Ammonia	50 cts.	per lb.,	10.00 per unit
For Phosphoric Acid	3 cts.	per lb.,	0.60 per unit

In Ground Bone:

For Nitrogen, calculated as Ammonia	50 cts.	per lb.,	10.00 per unit
For Phosphoric Acid	3 cts.	per lb.,	0.60 per unit

Special attention is invitated to the comparative values per unit in the above schedule. It is very much easier to make calculations on the unit basis. Thus, if Dried Blood containing 10 per cent of Ammonia sells for $8.00 per unit, it means that the selling price is the per unit value multiplied by the per cent of Ammonia, or in this case $80.00 per ton. In the case of a "Complete Fertilizer" with the analysis 2-8-2, if Ammonia is worth $10.00 per unit, Available Phosphoric Acid $2.00 per unit and Potash $4.00 per unit the value per ton would be $20.00, plus $16.00, plus $8.00, giving a value of $44.00 per ton.

Consumers, of fertilizer should, as a rule, purchase the "High-Grade" goods, as the price per unit and the cost of bags, handling, etc., is less for the actual amount of fertilizer received than is the case if "Low-Grade" fertilizers are used. The latter are frequently made by using large amounts of filler.

In the purchase of Acid Phosphate one should always demand 16 per cent goods or better. Acid Phosphate containing 18 per cent may sometimes be obtained. The consumers should be willing to pay more for the 18 per cent than for the 16 per cent goods. There is no excuse, whatever, for 10 per cent and 12 per cent Acid phosphate. It is made from the high grades by mixing in a make-weight or filler. Neither is there any excuse for Mixed Fertilizers containing less than 1 per cent of either Ammonia or Potash, if these are present. The Fertilizer Manufacturer's Association is now working on a scheme to eliminate "Low-Grade" fertilizers from the market and never use less than 2 per cent of Ammonia in an ammoniated fertilizer, never less than 2 per cent of Potash in fertilizer containing Potash, and not less than 14 per cent of total plant food, counting the Ammonia, Phosphoric Acid and Potash together. If this can be done, it will mean a great saving to the farmers, in the handling of extra weight, bags, freight, hauling, etc. However, the success of such a movement will depend to a considerable extent on the attitude of the buyer. If he insists on the stuff that is cheaper per ton, without regard to the amount of actual plant food, it is probable that he will be accommodated.

SPRING FERTILIZERS TO COST LESS.

There is to be a decided decrease in the cost of fertilizers this spring. The greatest reduction is on ammoniates, the next on potash and the least on phosphates.

The schedule for comparative values for spring should be about as follows: Ammonia $6 per unit, Available phosphoric acid $1.50 per unit, and Potash $3 per unit.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Alexandria Fertilizer & Chem. Co.,	**Alexandria, Va.**										
41143	Basic Lime Phosphate (Low Grade)	Williamsport	.....	.....	.....	.....	.70	.....	13.90	13.00	$27.94	$26.00
	American Agricultural Chemical C	**o., N. Y., N. Y.**										
41000	Basic Lime Phosphate (Low Grade)	Baltimore	.....	.....	.....	.....	3.60	1.00	12.70	13.00	26.12	26.20
41056	Coe-Mortimer Corn, Gr. & Grs. Guano	Pocomoke	1.11	1.00	3.04	3.00	1.05	.....	9.25	9.00	42.18	40.00
41053	Dissolved Phosphate & Potash	Easton	.....	.....	2.24	2.00	1.10	.....	10.40	10.00	29.98	28.00
41071	Fine Ground Bone	Upper Marlboro	3.29	3.00	.....	.....	*26.30	*22.88	.....	.....	48.68	43.73
41001	Fish Guano 1918	Baltimore	1.13	1.00	1.12	1.00	1.20	.....	8.25	8.00	32.76	30.00
41119	Pathfinder 1920	Baltimore	1.25	1.00	2.76	3.00	1.38	.....	9.62	9.00	43.33	40.00
41002	Pure Bone Meal	Baltimore	5.14	4.50	.....	.....	*23.25	*21.51	.....	.....	65.35	57.91
41190	Red Dragon Guano	Baltimore	1.62	2.00	1.76	2.00	2.17	.....	13.23	12.00	50.57	52.00
41004	Special Bone Mixture	Baltimore	1.55	1.50	.....	.....	8.48	7.00	9.87	12.00	38.63	41.80
41216	Star Phosphate (Low Grade)	Baltimore	.....	.....	3.16	3.00	3.00	.....	8.95	8.00	31.14	28.00
41006	White Oak Compound	Baltimore	1.02	1.00	2.16	2.00	2.30	.....	12.10	12.00	43.96	42.00
	A. A. C. Co. (Canton), Balto., Md.											
41007	Baker's Spec. Wht., Corn & Grs.	Baltimore	1.13	1.00	2.05	2.00	1.75	.....	9.02	9.00	38.24	36.00
41200	Harrow Brand Crop Grower	Thurmont	1.06	1.00	1.03	1.00	1.87	.....	8.73	8.00	32.93	30.00
	A. A. C. Co. (Detrick), Balto., Md.											
41144	Kangaroo Komplete Kompound.	Grantsville	2.13	2.00	2.72	3.00	.97	.....	9.03	8.00	50.63	48.00
41209	Paragon Amm'd Phos. & Pot. (L. G.)	Baltimore	1.06	1.00	1.56	1.00	1.20	.....	8.85	7.00	35.02	28.00
41208	P. & B. Special 12-3	Baltimore	.....	.....	2.40	3.00	1.20	.....	13.15	12.00	36.14	36.00
41091	Standard Potash Fertilizer	Baltimore	1.21	1.00	3.60	3.00	1.35	.....	9.25	9.00	45.54	40.00
41099	Victory Alkaline	Baltimore	.....	.....	5.04	5.00	1.63	.....	13.02	12.00	46.53	44.00

41091	Standard Potash Fertilizer	Baltimore	1.21	1.00	3.60	3.00	1.35		9.25	9.00	45.54	40.00		
41099	Victory Alkaline	Baltimore			5.04	5.00	1.63		13.02	12.00	46.53	44.00		
	A. A. C. Co. (Lazaretto), Balto, Md.													
41171	Alkaline Bone	Betterton			3.08	3.00	1.30		12.85	12.00	38.28	36.00		
41201	Crop Grower	Baltimore	2.04	2.00	2.16	2.00	1.28		8.02	8.00	45.59	44.00		
410 8	Farmers Choice	Baltimore	1.23	1.00	2.04	2.00	1.55		8.10	8.00	37.28	34.00		
	A. A. C. Co. (Susquehanna), Balto., Md.													
41013	Alkaline Phosphate	Baltimore			1.88	2.00	1.05		11.70	10.00	31.13	28.00		
41202	Arrow Brand (Low Grade)	Baltimore	1.06	1.00			1.10		9.50	8.00	30.04	26.00		
41014	Crop Grower (Low Grade)	Baltimore	1.01	1.00	1.04	1.00	1.75		7.60	7.00	30.16	28.00		
	A. A. C. Co. (Wheeler), Rutland, Vt.													
41016	Acid Phosphate H. G	Baltimore					1.70		16.05	16.00	32.44	32.00		
41100	Potato Manure 1920	Baltimore	2.01	2.00	2.64	3.00	1.15		9.02	8.00	49.16	48.00		
41017	Royal Wheat Grower	Baltimore	1.02	1.00	1.60	2.00	1.25		8.40	8.00	33.90	34.00		
41018	Wheat and Clover	Baltimore			2.04	2.00	1.00		10.35	10.00	29.06	28.00		
	A. A. C. Co. (Zell), Balto, Md.													
41015	Dissolved Phosphate 14%	Baltimore					.75		14.15	14.00	28.45	28.00		
41145	Acid Phosphate 16%	Cumberland					1.25		16.85	16.00	33.95	32.00		
41180	Economy Phosphate	Taneytown	1.13	1.00	1.88	2.00	1.65		8.02	8.00	35.52	34.00		
41105	Electric Phosphate	Rocky Ridge			2.04	2.00	1.15		10.75	10.00	29.89	28.00		
41049	Hustler Phosphate	Laurel	1.01	1.00	3.05	3.00	1.72		9.23	9.00	41.45	40.00		
	Acme Guano Co., Baltimore, Md.													
41092	Special Spring and Fall (L. Gr.)	Baltimore			1.08	1.00	.90		9.02	8.00	22.54	20.00		
	American Fertilizing Co., Balto., Md.													
41120	Acid Phosphate 14%	Baltimore					1.80		14.45	14.00	29.26	28.00		
41019	Acid Phosphate H. G	Baltimore					.65		16.85	16.00	33.83	32.00		
41020	Ammoniated Crop Compound	Baltimore	1.08	1.00	2.04	2.00	1.05	1.00	9.02	8.00	37.42	34.40		
41021	Champion Grain Grower	Baltimore	1.09	1.00	3.76	4.00	1.25		8.45	8.00	43.34	42.00		
41078	Dissolved Phos. & Potash (L. Gr.)	Baltimore			1.16	1.00	2.98	1.00	10.97	10.00	27.18	24.20		
41079	Dissolved Phosphate & Potash	Baltimore			2.36	2.00	2.65	1.00	10.75	10.00	31.47	28.20		
41072	Eagle Crop Grower	Camp Springs	1.95	2.00	1.68	2.00	1.80		7.50	8.00	41 94	44.00		
41080	Fish and Bone Compound	Baltimore	2.01	2.00	2.56	3.00	2.50		9.25	8.00	49.84	48.00		
41081	Fish Guano	Baltimore	1.06	1.00			3.15	1.00	10.60	10.00	33.06	30.40		
41073	Fish and Bone Special	Camp Springs	2.12	2.00			1.40		12.30	11.00	46.36	42.00		
41022	Formula for Wheat and Corn	Baltimore			4.36	5.00	1.35		11.40	10.00	40.51	40.00		
41082	Grain Reliable Amm'd For. (L.G.)	Baltimore	.27	.50			.65	1.00	14.85	10.00	32.66	25.40		

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	American Fertilizing Co., Balto., Md.											
41093	Grain and Grass	Baltimore	1.09	1.00	2.72	3 00	1.75	1.00	9.80	9.00	$42.08	$40 40
41181	Phosphate and Potash	Sykesville	.....	.....	2.12	2.00	3.23	.....	10.72	10.00	30.57	28.00
41121	Premium Phosphate and Potash.	Baltimore	.....	.....	2.16	2.00	2.53	.....	12.42	12.00	33 99	32.00
41134	Prize Alkaline Phosphate	Baltimore	.....	.....	2.32	3.00	2.50	.....	12.65	12.00	35.08	36.00
41074	Pure Raw Bone	Camp Springs	4.39	4.50	.....	.....	*21.80	*21.51	.....	.....	56 98	57.91
41023	Reliable Guano	Baltimore	1.08	1.00	1.20	1.00	1.55	1.00	8.75	8.00	33.72	30.40
41146	Special Fish Guano	Oakland	1.52	1.00	.....	.....	1.35	1.00	11.35	10.00	38.44	30.40
41127	Special Formula (Low Grade)	Baltimore	.82	.50	2.04	2.00	1.80	1.00	10.30	8.00	37.68	29.40
	Armour Fertilizer Works, Balto., Md.											
41083	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	.68	.....	17.97		36.08	32.00
41024	Bone Meal	Baltimore	3.14	3.00	.....	.....	*26.95	*22.00	.....	.....	47.57	43.20
41128	Bone & Dis. Bone with Potash	Baltimore	2.08	2.00	3.24	3.00	2.85	.....	9.34	9.00	53.58	50.00
41129	Cereal Special No. 3	Baltimore	1.84	2.00	2.14	2.00	1.50	.....	12.85	12.00	53 26	52.00
41109	Cereal Special No. 4	Fallston	2.04	2.00	.....	.....	1.55	.....	12.15	12.00	45.32	44.00
41051	Crop Grower	Chestertown	1.09	1.00	2.08	2.00	1 75	.....	8.70	8.00	37.32	34.00
41203	Fruit & Root Crop Special	Baltimore	2.16	2.00	5.24	5.00	1.45	.....	8.25	8.00	59.64	56.00
41055	Grain Grower	Sharptown	2.87	2.00	2.06	2.00	1.55	.....	5.90	8.00	49.36	44.00
41122	Grain Special 2-10-0	Baltimore	2.08	2.00	.....	.....	.80	.....	10.70	10.00	42.52	40.00
41123	1-10-0 Fertilizer	Baltimore	1.13	1.00	.....	.....	1.25	.....	10.05	10.00	31.90	30.00
41124	Phosphate and Potash No. 1	Baltimore	.....	.....	2.24	2.00	.45	.....	10.65	10.00	30.25	28.00
41084	Royal Ammoniated Fertilizer	Baltimore	1.21	1.00	4.04	4.00	1.50	.....	8.50	8.00	45.86	42.00
41052	Wheat, Corn and Oats Special (L, Gr.)	Chestertown	1.11	1.00	1.24	1.00	1.17	.....	7.63	7.00	31.79	28.00
41204	Wheat and Clover 10-5	Baltimore	.....	.....	5.64	5.00	1.35	.....	10.30	10.00	43.43	40.00
	Baltimore Fertilizer Co., Balto., Md.											

41052	Wheat, Corn and Oats Special (L. Gr.)	Chestertown	1.11	1.00	1.24	1.00	1.17		7.63	7.00	31.79	28.00
41204	Wheat and Clover 10-5	Baltimore			5.64	5.00	1.35		10.30	10.00	43.43	40.00
	Baltimore Fertilizer Co., Balto., Md.											
41110	Honest Acid Phosphate	Glyndon					.85		16.20	16.00	32.57	32.00
41111	Honest Ammoniated Bone	Glyndon	1.25	2.00	2.16	2.00	3.23		8.02	8.00	38.47	44.00
41194	Honest Potato Grower	Glyndon	.80	1.00	2.36	3.00	2.00		9.85	9.00	37.94	40.00
41195	Honest Wheat & Grass Grower	Baltimore	1.83	2.00			1.20		10.55	10.00	39.88	40.00
41162	Honest Wheat & Grass	Bel Air	1.16	1.00	2.84	3.00	1.85		9.80	9.00	43.30	40.00
41075	Old Honesty (Low Grade)	La Plata	1.04	1.00			2.80	1.00	8.45	8.00	28.42	26.40
41199	Old Honesty (Low Grade)	Baltimore	1.09	1.00			2.18		8.01	8.00	27.79	26.00
41076	Potato Grower	La Plata	1.16	1.00	3.68	3.00	1.00		8.35	9.00	43.42	40.00
41077	Rock and Potash	La Plata			1.76	2.00	1.25		11.75	12.00	30.79	32.00
	Baltimore Pulverizing Co., Balto., Md.											
41191	Corn & Grain Grower	Baltimore			1.08	1.00	2.65		11.55	12.00	27.95	28.00
41050	Dissolved Animal Bone	White Hall	2.10	2.00			.55		11.85	13.00	44.92	46.00
41025	Harvest King	Baltimore	.94	1.00	1.68	2.00	1.26		11.20	10.00	39.02	38.00
41026	S. C. Phosphate 16%	Baltimore					.55		16.75	16.00	33.61	32.00
41225	Spec. Spring & Fall (L. Gr.)	Baltimore			1.56	1.00	.77		8.38	8.00	23.15	20.00
41028	Royal Compound	Baltimore	1.50	2.00	1.04	1.00	.90		8.40	8.00	36.28	40.00
41029	Wheat and Grass Grower	Baltimore	1.57	2.00	2.04	2.00	.75		10.25	10.00	44.66	48.00
	Baugh & Sons Co., Baltimore, Md.											
41070	Acid Phosphate 16%	Baltimore					.75		16.25	16.00	32.65	32.00
41031	Animal Base & Potash Comp.	Baltimore	2.02	2.00	2.04	2.00	1.80		8.40	8.00	45.88	44.00
41220	Complete Animal Base Fert.	Betterton	2.03	2.00	5.04	5.00	2.05		8.90	8.00	59.08	56.00
41139	Double Eagle Fertilizer	Baltimore	2.08	2.00	1.20	1.00	1.35		9.25	9.00	44.64	42.00
41032	Excelsior Guano	Baltimore	1.13	1.00	4.20	4.00	2.10		8.95	8.00	46.84	42.00
41067	Fish Bone Guano	Conowingo	2.22	2.00			1.95		11.05	10.00	45.08	40.00
41033	General Crop Grower	Baltimore	1.45	1.00	1.16	1.00	2.05		9.10	8.00	38.16	30.00
41034	Half & Half Mixture	Baltimore	1.57	1.50			8.24		11.01	12.00	41.02	39.00
41135	Lime & Phosphate (L. Gr.)	Baltimore					2.80		13.70	13.00	27.96	26.00
41112	Old Stand-By	Gaithersburg	2.22	2.00			2.38		12.87	12.00	48.89	44.00
41094	Peninsula Grain Producer (L. Gr.)	Ellicott City	1.28	1.00			1.82		9.68	9.00	32.89	28.00
41035	Phosphate & Potash Mixture	Baltimore			4.64	5.00	1.70		12.65	12.00	44.20	44.00
41205	Phosphate & Potash Mix. 12-3	Baltimore			3.24	3.00	1.53		13.62	12.00	40.51	36.00
41036	Pure Steamed Bone	Baltimore	2.08	2.00			*27.10	*25.00			37.06	35.00
41037	Raw Bone Meal	Baltimore	4.03	4.00			*17.04	*18.30			50.52	50.98
41215	Soluble Alkaline Super. Phos.	Maple Grove			2.32	2.00	1.10		10.35	10.00	30.20	28.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Baugh & Sons Co., Baltimore, Md.											
41065	Steamed Bone	Greensboro	3.91	3.00	.....	.....	*17.40	*22.93	.....	.....	$49.54	$43.76
41106	Valley Special	Monrovia	1.28	1.25	2.34	2.00	2.45	.....	11.15	10.00	45.44	40.50
41038	Wheat Fertilizer	Baltimore	2.03	2.00	2.04	2.00	1.40	.....	9.05	8.00	47.12	44.00
	Beckley Fertilizer Co., Half Way, Md.											
41161	Bone Mixture	Half Way	1.79	1.50	.....	.....	1.85	.....	14.80	14.00	48.24	43.00
	N. T. Bennett Fertilizer Co., New Windsor, Md.											
41113	Butcher House	New Windsor	1.23	1.00	3.96	2.00	1.55	.....	12.10	9.00	52.96	36.00
41114	1-11	New Windsor	1.13	1.00	.....	.....	1.35	.....	15.30	11.00	42.44	32.00
	Bowker Fertzr. Co., Boston, Mass.											
41192	Sure Crop Phos. Revised	Baltimore	1.08	1.00	2.20	2.00	1.45	.....	8.15	8.00	36.48	34.00
	C. H. Braun Sons, Halethorp, Md.											
41210	3-10-0 Fertilizer	Halethorp.	2.53	3.00	.....	.....	10.20	.....	9.80	10.00	49.18	50.00
	Bryant Fertilizer Co., Alexandia. Va.											
41206	H. G. Potash Mixture	Baltimore	.....	.....	3.92	4.00	1.78	.....	11.12	10.00	38.28	36.00
	Herbert Bryant's Son, Alexandria, Va.											
41147	Economy Compound (L. Gr.)	Washington Grove	.....	.....	.....	.....	1.68	.....	11.37	11 00	23.08	22.00
41148	Empress Ammoniated Bone	Dickerson	1.50	1.25	.....	.....	3.43	.....	9.07	10.00	34.51	32.50
41149	Empress Amm'd Dis. Bone	Germantown	1.11	1.00	.72	1.00	1.95	.....	9.05	8.00	32.86	30.00
41151	2-8-2	Germantown	1.57	2.00	2.20	2.00	1.73	.....	8.27	8.00	41.73	44.00
	Central Chemical Co., Hagerstown, Md.											
41152	Acme (Low Grade)	Middletown	.89	1.00	.....	.....	1.05	.....	8.20	8.00	25.72	26.00

41149	Empress Amm'd Dis. Bone	Germantown	1.11	1.00	.72	1.00	1.95		9.07	10.00	34.51	32.50
41151	2-8-2	Germantown	1.57	2.00	2.20	2.00	1.73		8.27	8.00	41.73	44.00
	Central Chemical Co., Hagerstown, Md.													
41152	Acme (Low Grade)	Middletown	.89	1.00			1.05		8.20	8.00	25.72	26.00
41107	Commonwealth	Myersville			2.05	2.00	.90		10.65	10.00	29.68	28.00
41153	Crown Jewel	Boonsboro	1.25	1.00	2.24	3.00	1.88		9.87	9.00	41.95	40.00
41108	Dissolved Phosphate	Woodsboro					.70		16.40	16.00	32.94	32.00
41154	Dissolved Bone Compound	Hagerstown	2.02	2.25			2.28		13.01	13.00	47.13	48.50
41155	Fish Compound	Friendsville	1.52	1.50			1.65		11.90	10.00	39.66	35.00
41156	Golden Sheaf	Friendsville	1.08	1.00	.84	1.00	1.13		9.27	8.00	33.15	30.00
41157	Grain and Grass Grower	Williamsport	2.01	2.00	2.36	2.00	1.88		12.27	12.00	54.83	52.00
41158	Pride of the Valley	Williamsport	1.02	1.00			2.38		10.62	10.00	32.39	30.00
41159	Valley Mixture	Boonsboro	1.66	2.00	1.64	2.00	2.10		8.60	8.00	41.20	44.00
41160	Wheat and Grass Mixture	Williamsport	1.25	1.00			2.00		14.85	10.00	43.00	30.00
	Chesapeake Plant & Animal Food Co., Balto., Md.													
41130	Formula No. 2 Fertilizer	Colgate	5.39	5.50	4.40	4.00	1.30		7.60	6.65	37.22	34.30
	Josiah Cope & Co., Balto., Md.													
41211	Try-Me Fertilizer	Baltimore	1.25	2.00	2.40	2.00	2.17		9.23	8.00	41.43	44.00
	Dorchester Fertilizer & Lime Co., Cambridge, Md.													
41163	Grain Grower	Cambridge			2.32	2.00	.90		11.20	10.00	31.86	28.00
41164	Old Dorset	Cambridge	1.03	1.00	3.78	4.00	1.60		8.05	8.00	42.16	42.00
41165	Old Glory	Cambridge			5.60	5.00	.68		12.12	12.00	46.78	44.00
41166	Our No. 2	Cambridge	1.66	2.00	2.52	2.00	3.25		8.05	8.00	44.08	44.00
41167	Our Special	Cambridge	.89	1.00	2.28	2 00	1.35		8.25	8.00	35.06	34.00
	Wm. R. Dorsey, Ellicott City, Md.													
41095	Mixture "D" Fert. Rev. 1916	Ellicott City	2.42	2.40			2.25	1.50	10.40	10.00	45.90	44.60
	Eastern Guano Co., New York, N. Y.													
41182	Dissolved Phosphate 16%	Smithsburg					1.00		17.65	16.00	35.50	32.00
41183	Farmers Compound	Smithsburg	1.57	2.00			2.15		11.10	10.00	38.76	40.00
41184	Farmers Pride	Smithsburg	1.79	2.00	1.64	2.00	1.65		8.10	8.00	41.32	44.00
	Edelen Bros., Baltimore, Md.													
41085	Special Wheat & Grain Mixt	Baltimore	1.13	1.00	1.20	1.00	1.90		12.95	8.00	42.76	30.00
	Eureka Chemical Co., Baltimore, Md.													
41102	Fish & Potash (Low Grade)	Baltimore	.75	.50	2.24	2.00	.92	.50	8.83	8.00	34.49	29.20
	Farmers' Exchange Co., Union Bridge, Md.													
41185	Union Bridge Favorite	Union Bridge	1.14	1.00	2.64	2.00	1.70		8.35	8.00	39.34	34.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Farmers Fertilizer & Feed Cc., We	**stminster, Md.**										
41115	H. G. Phosphate	Westminster	1.89	2.00	1.80	2.00	1.30	.....	11.80	11.00	$50.22	$50.00
41116	Indian Chief.	Westminster	1.14	1.00	.....	.....	1.15	1.00	12.02	11.00	35.90	32 40
41117	No. 3 Phosphate	Westminster	1.59	1.50	1.64	2.00	2.18	.....	9.77	8.00	42 87	39 00
41118	XX Phosphate	Westminster	1.18	1.00	2.02	2.00	1.38	1.00	9.37	9.00	39.17	36.40
	Farmers & Planters Co., Salisbury,	**Md.**										
41068	Fish Mixture	Salisbury	1.91	2.00	2.88	2 00	2.65	.....	9.30	8.00	50.28	44.00
41058	General Crop Grower	Salisbury	1.06	1.00	2.04	2.00	2.62	.....	11.53	10.00	42.87	38.00
41219	Special Fish Mixture	Salisbury	1.50	2.00	4.24	5.00	1.00	.....	10.20	8.00	52.76	56.00
41218	Special Potash Mixture	Salisbury	.....	.....	5.02	5.00	.55	.....	11.45	12 00	43.09	44.00
	Griffith & Boyd Co., Balto., Md.											
41125	Acid Phosphate 14%	Baltimore	.....	.....	.....	.....	.93	.....	15.22	14.00	30.63	28.00
41222	Acid Phosphate H. G. 16%	Baltimore	.....	.....	.....	.....	.50	.....	17.35	16 00	34.80	32 00
41193	Cereal Plant Food	Baltimore	1.02	1.00	2.04	2.00	1.58	.....	8.62	8.00	36.23	34 00
41096	Economizer Fertilizer (L. Gr.)	Baltimore	.75	.50	1.08	1 00	1.05	.....	6.75	6.00	25.74	21 00
41087	Farmers Queen	Baltimore	1.30	1.00	3.04	3.00	1.05	.....	9.05	9 00	43.68	40.00
41126	Fish, Bone & Potash	Baltimore	1.54	1 75	1.84	2.00	1.40	.....	7.55	7.00	38.42	39.50
41140	Fish & Bone Mixture (L. Gr.)	Baltimore	1.57	1.75	.....	.....	.43	.....	8.62	7.00	33.11	31.50
41097	Peerless Fertilizer (L. Gr.)	Baltimore	.75	.50	2.12	2.00	.75	.....	8.80	8 00	33.88	29 00
41131	Peerless Mixture (Low Grade)	Baltimore	.73	.50	.....	.....	.75		8.80	8.00	25.20	21.00
41137	Pure Fine Ground Bone Meal	Baltimore	4.23	4.00	.....	.....	*19.35	*20.00	.....	.....	53.91	52 00
41088	Reliable Crop Grower	Baltimore	1.42	1.00	1.32	1.00	.90	.....	8.20	8.00	36.24	30.00
41098	Special Grain Grower	Baltimore	.....	.....	2.36	2.00	1.15	.....	10.55	10.00	30.77	28.00
41039	Standard Guano	Baltimore	2.05	2.00	2.16	2.00	1.13	.....	11.37	12.00	52.33	52.00
41132	Valley Fertilizer (L. Gr.)	Baltimore	.84	.75	3.05	3.00	1.40	.....	8.95	8.00	39.06	35.50

41131	Peerless Mixture (Low Grade)	Baltimore	.73	.50	.....	.....	.75		8.80	8.00	25.20	21.00
41137	Pure Fine Ground Bone Meal	Baltimore	4.23	4.00	.....	.....	*19.35	*20.00	.....	.....	53.91	52.00
41088	Reliable Crop Grower	Baltimore	1.42	1.00	1.32	1.00	.90	.....	8.20	8.00	36.24	30.00
41098	Special Grain Grower	Baltimore	.....	.....	2.36	2.00	1.15	.....	10.55	10.00	30.77	28.00
41039	Standard Guano	Baltimore	2.05	2.00	2.16	2.00	1.13	.....	11.37	12.00	52.33	52.00
41132	Valley Fertilizer (L. Gr.)	Baltimore	.84	.75	3.05	3.00	1.40	.....	8.95	8.00	39.06	35.50
	Griffith & Turner Co., Balto., Md.											
41040	Ammoniated Butchers Bone	Baltimore	1.33	1.25	1.28	1.50	1.50	.....	10.70	9.00	40.42	36.50
	Hampstead Fertzr. Co., Hampstead, Md.											
41186	Acid Phosphate	Hampstead	.....	.....	.....	.....	1.80	.....	16.85	16.00	34.06	32.00
41187	Honesty	Hampstead	.67	1.00	2.24	2.00	1.60	.....	8.10	8.00	32.50	34.00
41188	1-9-3	Hampstead	.89	1.00	3.60	3.00	2.50	.....	8.55	9.00	41.40	40.00
	S. M. Hess & Bro., Inc., Philadelphia, Pa.											
41207	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	1.50	.....	16.75	16.00	33.80	32.00
41133	Wheat and Grass Manure	Baltimore	1.18	1.00	2.28	2.00	1.40	.....	8.20	8.00	37.88	34.00
	Wm. H. Hood, Mt. Airy, Md.											
41189	Special Mixture	Mt. Airy	1.03	1.00	1.36	1.00	3.58	.....	11.07	8.00	39.31	30.00
	Horsey, Roe & Co., Greensboro, Md.											
41064	Rock Phosphate	Greensboro	.....	.....	.....	.....	1.35	.....	16.75	16.00	33.77	32.00
41173	Bone Phosphate	Greensboro	2.82	2.25	.....	.....	8.30	9.00	11.75	11.00	55.02	48.10
41174	1-8-2	Greensboro	1.33	1.00	1.44	2.00	2.60	.....	8.65	8.00	37.40	34.00
41175	1-17	Greensboro	1.13	1.00	....	.....	6.20	7.00	11.40	10.00	36.58	32.80
41226	Special 1-8-4	Greensboro	1.30	1.00	3.84	4.00	1.20	.....	10.55	8.00	49.94	42.00
41061	Special 1½-20	Greensboro	2.18	1.50	.....	.....	1.95	6.00	16.10	14.00	54.78	45.40
41062	Special 2¼-18	Greensboro	2.26	2.25	.....	.....	9.35	9.00	10.05	11.00	46.44	48.10
41176	10-4	Greensboro	.....	.....	4.60	4.00	.73	.....	10.87	10.00	40.29	36.00
41177	10-2	Greensboro	.....	.....	2.12	2.00	.83	.....	10.17	10.00	28.99	28.00
41178	2-12-2	Greensboro	1.52	2.00	1.56	2.00	2.08	.....	12.52	12.00	47.31	52.00
41227	12-5	Baltimore	.....	.....	5.64	5.00	1.05	.....	13.75	12.00	50.27	44.00
	Hubbard Fertilizer Co., Balto, Md.											
41041	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	.85	.....	16.75	16.00	33.67	32.00
41457	Acid Phosphate 16%	Cecilton (E. N. C.)	.....	.....	.....	.....	.20	.....	17.35	16.00	34.74	32.00
41212	Climax Phosphate	Baltimore	.84	1.00	3.56	4.00	1.40	.....	8.90	7.00	41.00	40.00
41103	Columbia Phosphate (Low Grade)	Baltimore	1.28	1.00	.....	.....	.95	.....	9.65	8.00	32.48	26.00
41217	Farmers IXL Phosphate	Alesia	2.13	2.00	2.44	2.00	1.12	.....	9.78	8.00	51.07	44.00
41089	Fish Mixture	Baltimore	1.64	1.00	1.08	1.00	1.55	.....	8.20	8.00	37.74	30.00
41090	H. G. Potash Mixture	Baltimore	.....	.....	3.44	4.00	1.20	.....	11.35	10.00	36.70	36.00
41043	1-8-3 Fertilizer	Baltimore	1.43	1.00	3.32	3.00	.95	.....	8.75	8.00	45.46	38.00
41141	Money Maker	Baltimore	2.22	2.00	6.08	5.00	.83	.....	8.52	8.00	63.89	56.00

*Total Phosphoric Acid.

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Hubbard Fertilizer Co., Balto, Md.											
41044	Oriental Guano	Baltimore	1.06	1.00	.....	.....	1.00	.....	12.40	10.00	$35.80	$30.00
41045	Phosphate and Potash	Baltimore	.....	.....	2.16	2.00	1.30	.....	10.80	10.00	30.50	28.00
	M. P. Hubbard Co., Inc., Balto., Md.											
41142	Dissolved Phosphate	Baltimore	.....	.....	.....	.....	.40	.....	18.20	16.00	36.48	32.00
41046	Excelsior	Baltimore	.84	1.00	2.12	2.00	.85	.....	8.20	8.00	33.62	34.00
41104	Fish Phosphate and Potash	Baltimore	1.19	1.00	3.08	3.00	1.78	.....	7.01	7.00	38.95	36.00
41047	Harvest King	Baltimore	1.02	1.00	2.40	3.00	1.00	.....	10.05	9.00	40.30	40.00
41224	Old Economy (Low Grade)	Baltimore	.85	.50	2.28	2.00	1.20	.....	8.65	8.00	35.40	29.00
41138	Soluble Phosphate and Potash	Baltimore	.....	.....	1.76	2.00	.88	.50	10.07	10.00	27.36	28.10
41198	Special 10-4	Baltimore	.....	.....	3.72	4.00	1.20	.....	10.85	10.00	36.82	36.00
	Koller Fertilizer Co., Seitzland, Pa.											
41169	Acid Phosphate H. G. 16%	Parkton	.....	.....	.....	.....	.35	.....	16.80	16.00	33.67	32.00
41170	Special Potato Grower	Parkton	1.02	1.00	4.02	4.00	1.38	.....	8.17	7.00	43.17	40.00
	Lancaster Chemical Co., Lancaster, Pa.											
41500	Dewey Brand	Perryville	1.45	1.50	2.20	2.00	.96	.....	7.29	8.00	38.26	39.00
41709	Economist Fertilizer (L. G.)	Perryville	.....	.....	.....	.....	1.17	1.00	11.37	10.00	22.97	20.20
41710	Grain Special (Low Grade)	Perryville	.55	.50	.24	1.00	1.42	.....	11.93	10.00	30.89	29.00
41501	Special Potash Manure	Perryville	.....	.....	1.80	2.00	.60	.....	10.02	10.00	27.36	28.00
41502	Success	Perryville	.80	1.00	4.68	4.00	.82	.....	7.78	8.00	42.61	42.00
41503	Wheat & Grass	Perryville	1.02	1.00	.....	.....	1.05	.....	11.80	10.00	34.22	30.00
41504	Wheat Special	Perryville	1.93	2.00	.....	.....	1.22	.....	11.63	10.00	43.05	40.00
	Lister's Agrl. Chem. Works, Newark, N. J.											

41503	Wheat & Grass	Perryville	1.02	1.00			1.05		11.80	10.00	34.22	30.00
41504	Wheat Special	Perryville	1.93	2.00			1.22		11.63	10.00	43.05	40.00
	Lister's Agrl. Chem. Works, Newark, N. J.											
41586	A. B. C. Fertilizer	Baltimore	2.08	2.00	1.80	2.00	1.60		12.02	12.00	52.68	52.00
41587	Corn & Potato Fertilizer	Baltimore	2.03	2.00	3.04	3.00	1.40		8.40	8.00	49.82	48.00
41213	Dissolved Phos. & Potash (L.G.)	Baltimore			3.36	3.00	1.62		6.58	6.00	26.92	24.00
41534	Golden Sheaf	Baltimore	1.02	1.00	1.04	1.00	1.75		8.85	8.00	32.76	30.00
41535	Harvest Queen Fertilizer	Baltimore	1.02	1.00	3.04	3.00	1.55		9.80	9.00	42.58	40.00
41553	Lime Phosphate (Low Grade)	Baltimore					4.95	1.00	12.70	13.00	26.39	26.20
41536	Phosphate & Potash 10-4	Baltimore			3.48	4.00	1.05		10.75	10.00	35.63	36.00
41588	Squirrel Brand Fertilizer	Baltimore	1.08	1.00	1.77	2.00	1.77		8.03	8.00	34.65	34.00
41537	12-5 Fertilizer	Baltimore			4.60	5.00	2.95		12.85	12.00	44.69	44.00
41466	Special Bone Mixture	Ellicott City	1.51	1.50			6.75	7.00	11.95	12.00	41.70	41.80
	Martin Fertilizer Co., Phila., Pa.											
41754	Acid Phosphate 14%	Baltimore					.40		14.06	14.00	28.20	28.00
41693	Acid Phosphate 16%	Baltimore					.65		16.79	16.00	33.71	32.00
41589	Crop Producer	Baltimore	1.26	1.25			1.50		10.80	10.00	34.80	32.50
41595	Dissolved Organic Compound	Baltimore	1.03	1.00	3.64	3.00	1.92		10.28	9.00	46.19	40.00
41741	1-8-4 Fertilizer	Baltimore	1.06	1.00	3.64	4.00	1.15		9.45	8.00	44.52	42.00
41678	Phosphate & Potash 12-3	Baltimore			2.56	3.00	.60		12.16	12.00	34.68	36.00
41743	Potash & Soluble Phosphate	Baltimore			5.03	5.00	.55		12.50	12.00	45.23	44.00
	Maryland Milling & Supply Co., Sykesville, Md.											
41648	Acid Phosphate 14%	Sykesville					1.15		14.37	14.00	28.97	28.00
41649	Acid Phosphate 16%	Sykesville					.60		16.30	16.00	32.72	32.00
41650	Corn, Oats & Grass Mixture	Sykesville	1.03	1.00	1.40	1.00	1.20		9.35	8.00	35.08	30.00
41731	Excelsior Super Phosphate	Sykesville	1.60	2.00	2.12	2.00	.52		9.78	8.00	44.25	44.00
41732	Fish Mixture	Sykesville	1.76	2.00	1.24	1.00	.47		11.78	10.00	46.31	44.00
41651	Gambrill's Excelsior Phosphate	Sykesville	2.03	2.00	2.05	2.00	2.12		10.98	10.00	51.31	48.00
41469	Grain & Grass Mixture	Ellicott City	1.11	1.00	1.44	1.00	.93		8.72	8.00	34.67	30.00
41733	Grain Producer (Low Grade)	Sykesville	1.01	1.00			.27		9.93	9.00	30.07	28.00
41652	Phosphate & Potash	Sykesville			2.40	2.00	1.20		10.40	10.00	30.64	28.00
41653	Special Mixture 1-8-4	Sykesville	1.08	1.00	4.20	4.00	2.57		8.83	8.00	46.29	42.00
41467	Wheat & Grass Mixture	Ellicott City	1.01	1.00	.68	1.00	.45		10.25	8.00	33.50	30.00
41468	Wheat & Grass Mixture	Ellicott City	1.35	1.00	.96	1.00	.50		9.60	8.00	36.74	30.00
	Massey & Kilbourne, Chestertown, Md.											
41712	Crop Producer	Chestertown	1.16	1.00	2.88	3.00	.97		10.28	9.00	44.07	40.00

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Massey & Kilbourne, Chestertown, Md.											
41505	Super Phosphate	Chestertown	.....	.....	4.84	5.00	1.25	.....	11.45	10.00	$42 51	$40.00
41713	12 & 3	Chestertown	.....	.....	3.40	3.00	.80	.....	13.40	12.00	40.56	36.00
	F. Mehring Fertilizer Works, Keymar, Md.											
41734	Acid Phosphate 16%	Keymar	.....	.....	.....	.....	.30	.....	17.87	16.00	35.80	32.00
41735	Big 4 Crop Grower	Keymar	1.16	1.00	2.12	2.00	2.10	.....	9.40	9.00	39.72	36.00
41736	Half & Half Mixture	Keymar	1.67	1.25	.....	.....	3.15	1.00	15.05	15.00	48.06	42.90
	Miller Fertilizer Co., Balto., Md.											
41603	Acid Phosphate 14%	Ellicott City	.....	.....	.....	.....	1.85	.....	14.95	14.00	30.27	28.00
41615	Alkaline Mixture	Baltimore	.....	.....	2 05	2.00	1.27	.50	12.38	12.00	33.21	32.10
41590	Ammoniated Dissolved Bone	Baltimore	2.01	2.00	2.05	2.00	1.50	.50	8.35	8.00	45.60	44.20
41604	Clermont Fertilizer	Ellicott City	.80	1.00	1.80	2.00	1.47	.50	11.23	10.00	38.25	38.20
41591	Clinch Phosphate	Baltimore	.....	.....	2.20	2.00	1.12	.50	10.73	10.00	30.48	28.10
41592	Club Brand (Low Grade)	Baltimore	.55	.50	2.20	2.00	1.15	.50	9.35	8.00	33.46	29.20
41752	Club No, 2 (Low Grade)	Graceham	.65	.50	.76	.50	.87	.50	9.58	8.00	29.05	23.20
41538	Harvest Queen	Baltimore	1.06	1.00	3.12	3.00	1.45	.50	10.01	9.00	43.68	40.20
41593	Hustler Phosphate	Baltimore	1.02	1.00	1.28	1.00	1.30	.50	8.15	8.00	32.14	30.20
41679	Potato & Vegetable Grower	Baltimore	1.86	2.00	3.40	3.00	1.37	.50	10.03	9.00	52.81	50.20
41669	Standard Phosphate	Baltimore	2.49	3.00	3.44	3.00	1.25	.50	9.10	8.00	57.36	58.20
41561	Unexcelled	Baltimore	2.01	2.00	2.24	2.00	1.60	.....	10.70	10.00	51.10	48.00
41661	Wheat & Grass Grower	Baltimore	1.74	2.00	2.16	2.00	2.27	.50	13.13	12.00	53.21	52.20

41669	Standard Phosphate	Baltimore	2.49	3.00	3.44	3.00	1.25	.50	9.10	8.00	57.36	58.20
41561	Unexcelled	Baltimore	2.01	2.00	2.24	2.00	1.60		10.70	10.00	51.10	48.00
41661	Wheat & Grass Grower	Baltimore	1.74	2.00	2.16	2.00	2.27	.50	13.13	12.00	53.21	52.20
	G. Ober & Sons Co., Balto, Md.											
41539	Acid Phosphate 16% H G	Baltimore					.45		17.05	16.00	$34.19	$32.00
41744	Basic Lime 13% (Low Grade)	Baltimore					1.27		13.98	13.00	28.21	26.00
41755	Big Four Potash Compound	Baltimore			2.76	4.00	.55		12.98	10.00	37.11	36.00
41554	Dissolved Phosphate	Baltimore					.80		14.10	14.00	28.36	28.00
41555	Diamond Phosphate 10% (L. G)	Baltimore					.82		10 13	10.00	20.42	20.00
41756	Electro Compound	Baltimore	1.59	1.00			.95		11.80	10.00	39.38	30.00
41562	Farmers Mixture	Baltimore	1.16	1.00	2.32	2.00	.90		9.50	9.00	40.24	36.00
41506	Golden Top Wheat Grower	Preston	1.08	1.00	2.76	3.00	1.15		10.35	9.00	43.00	40.00
41605	Independent Mixture	Baltimore	1.19	1.00	1.44	1.00	1.35		9.77	8.00	37.74	30.00
41654	Liberty Fish Guano	Fallston	1.30	1.25			1.05		13.70	13.00	40 82	38.50
41616	McKenney's Special No. 1	Baltimore	2.03	2.00	3.16	3.00	.97		9.48	9.00	52.29	50.00
41714	Red Seal Wheat Guano	Cockeysville	1.91	2.00	2.24	2.00	1.17		12.03	12.00	52.59	52.00
41745	Pure Raw Bone Meal	Baltimore	4.40	4.50			*20.75	*21.00			56.45	57.60
41540	Sol. Amm'd. Super Phos. of Lime	Baltimore	1.91	2.00	2.32	2.00	.90		8.35	8.00	45.44	44.00
41715	Special Plant Food	Centreville	2.22	2.00	5.20	5.00	1.05		9.30	9.00	62.02	58.00
41563	Stag Guano	Baltimore	1.14	1 00	4.56	4.00	1.05		9.02	9.00	48.10	44.00
41541	Standard Potash Compound	Baltimore			3.20	4.00	1.17		12.73	12.00	38.49	40.00
41556	Super Phos. & Potash 10%	Baltimore			2.12	2.00	1.10		10.90	10.00	30.50	28.00
41542	12 & 5 Potash Compound	Baltimore			5.12	5.00	2.62		11.73	12.00	44.46	44.00
	Oyler & Spangler Fertilizer Works, Gettysburg, Pa.											
41625	Acid Phosphate 16%	Emmitsburg					1.12		17.33	16.00	34.88	32.00
41626	Crop Grower	Emmitsburg	1.09	1.00	3.03	3.00	1.12		9.02	9.00	41.51	40.00
41627	Special	Emmitsburg	1.81	2.00			1.92		11.43	11.00	41.73	42.00
41628	Super Phosphate (Low Grade)	Emmitsburg	1.08	1.00			1.95		10.05	9.00	31.68	28.00
	Pacific Manure & Fertz. Co., San Francisco, Cal.											
41760	Pulverized Sheep Manure (L. Gr.)	Baltimore	2.59	2.25	2.72	3.00	.15		1.50	.75	39.84	36.00
	Patapsco Guano Co., Balto., Md.											
41700	Acid Phosphate H. G.	Friendsville					.72		17.26	16.00	34.66	32.00
41694	Basic Lime Phosphate (L. Gr.)	Baltimore					1.40	1.00	14.46	13.00	29.20	26.20
41564	Baltimore Soluble Phosphate	Baltimore			3.12	3.00	1.45		12.70	12.00	38.17	36.00
41543	B. B. & P. Brand 1916	Baltimore	1.01	1.00	1.03	1.00	1.35		8.25	8.00	31.26	30.00
41565	Big Chief Brand with Potash	Baltimore	1.08	1.00	3.36	3.00	1.55		9.40	9.00	43.66	40.00
41695	Blood, Bone & Potash	Baltimore	1.06	1.00	1.04	1.00	1.45		8.70	8.00	32.74	30.00
41544	Coon Brand Guano	Baltimore	1.02	1.00	1.08	1.00	1.45		9.85	9.00	34.80	32.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Patapsco Guano Co., Balto., Md.											
41607	Chippewa Guano 3-8-3	Baltimore	2.88	3.00	3.08	3.00	1.22	.....	9.08	8.00	$59.77	$58.00
41629	General Crop Producer(L. Gr.)	Emmitsburg	1.01	1.00	1.04	1.00	1.82	.....	7.43	7.00	29.85	28.00
41606	Grain & Grass Producer	Baltimore	1.06	1.00	4.12	4.00	1.35	.....	8.30	8.00	44.22	42.00
41566	Guano	Baltimore	2.03	2.00	2.06	2.00	1.57	.....	8.33	8.00	45.83	44.00
41617	Money Maker	Baltimore	1.13	1.00	2.20	2.00	1.82	.....	8.03	8.00	36.89	34.00
41630	Potash Mixture	Emmitsburg	.....	.....	4.20	4.00	1.52	.....	10.58	10.00	38.16	36.00
41670	Pure Dissolved S.C. Phosphate	Baltimore	.....	.....	.....	.....	1.57	.....	14.63	14.00	29.57	28.00
41567	Vegetator	Baltimore	1.11	1.00	2.28	2.00	1.92	.....	9.03	9.00	39.05	36.00
	Peerless Fertz. Co., Chestertown, Md.											
41716	Acid Phosphate	Chestertown	.....	.....	.....	.....	.65	.....	17.05	16.00	34.23	32.00
41662	Club Mixture ½-10-0 (L. Gr.)	Baltimore	.60	.50	.....	.....	2.52	.....	11.53	10.00	30.07	25.00
41681	Ford's Ideal ½-8-2 (L. Gr.)	Baltimore	.65	.50	2.40	2.00	1.45	.....	9.60	8.00	35.88	29.00
	Piedmont-Mt. Airy Guano Co., Baltimore, Md.											
41557	Levering's Ammoniated Bone	Baltimore	1.09	1.00	2.80	3.00	1.62	.....	9.63	9.00	42.01	40.00
41460	Levering's Ammoniated Bone	Reisterstown	1.25	1.00	2.64	3.00	1.15	.....	9.73	9.00	42.98	40.00
41568	Levering's Excelsior	Baltimore	1.16	1.00	1.04	1.00	1.42	.....	7.68	8.00	31 69	30.00
41569	Levering's Harvest Queen	Baltimore	1.01	1.00	2.64	2.00	1.52	.....	8.78	8.00	38.83	34.00
41545	Levering's I.X.L. Crop Grow'r	Baltimore	.....	.....	2.72	3.00	1.30	.....	10.10	10.00	31.34	32.00
41570	Levering's Plow Brand	Baltimore	2.05	2.00	2.28	2.00	1.82	.....	8.03	8.00	46.41	44.00
41571	Levering's Potash Bone	Baltimore	.....	.....	3.80	4.00	1.32	.....	10.18	10.00	35.82	36.00
41546	Levering's Standard 2-8-3	Baltimore	2.13	2.00	3.80	3.00	1.72	.....	8.88	8.00	54.95	48.00
41453	Levering's Standard 2-8-3	Mt. Airy (J. N. C.)	1.64	2.00	2.56	3.00	1.13	.....	8.97	8.00	$45.03	$48.00

41546	Levering's Standard 2-8-3.....	Baltimore.....	2.13	2.00	3.80	3.00	1.72	.....	8.88	8.00	54.95	48.00

41453	Levering's Standard 2-8-3.....	Mt. Airy (J. N. C.)	1.64	2.00	2.56	3.00	1.13	.....	8.97	8.00	$45.03	$48.00
41452	Muriate of Potash.....	Mt. Airy (J. N. C.)	.....	.....	48.24	50.00	.....	.....	.....	.....	.....	.....
41618	Peerless Phosphate.....	Baltimore.....	.90	1.00	1.04	1.00	1.12	2.00	7.78	8.00	29.17	30.80
41608	Piedmont Acid Phosphate 16%..	Baltimore.....	.....	.....	.....	.....	.92	.....	16.58	16.00	33.34	32.00
41609	Piedmont Acid Phos. & Potash..	Baltimore.....	.....	.....	1.64	2.00	.77	.....	10.73	10.00	28.17	28.00
41619	Piedmont Economy (L. Gr.)....	Baltimore.....	.34	.25	.....	.....	.87	.....	10.03	10.00	23.81	22.50
41663	Piedmont Insula Guano (L. Gr.)..	Baltimore.....	.75	.50	2.08	2.00	1.05	.....	8.05	7.00	32.34	27.00
41610	Piedmont 1-12-3 Fertilizer.....	Baltimore.....	1.14	1.00	3.40	3.00	1.45	.....	12.65	12.00	50.88	46.00
41462	Piedmont Plow Brand.....	Reisterstown.....	2.25	2.00	2.12	2.00	1.55	.....	8.10	8.00	47.80	44.00
41611	Pied. Potash Mixture (L. Gr.)..	Baltimore.....	.....	.....	1.02	1.00	.97	.....	10.58	10.00	25.43	24.00
41742	Piedmont Special Crop Grower..	Baltimore.....	1.03	1.00	.....	.....	.80	.....	10.90	10.00	32.42	30.00
41737	Piedmont Standard Dis. Bone..	Mt. Airy.....	1.09	1.00	1.28	1.00	.95	2.00	11.45	10.00	39.30	34.80
41620	Piedmont Standard Fertilizer...	Baltimore.....	1.77	1.00	1.20	1.00	.87	.....	8.03	8.00	38.91	30.00
41682	Pied. Utility Fertilizer 2-10....	Baltimore.....	2.01	2.00	.....	.....	1.75	.....	10.50	10.00	41.80	40.00
41558	Piedmont Wheat Compound....	Baltimore.....	.....	.....	5.60	5.00	1.25	.....	12.05	12.00	46.75	44.00
	Pollock Fertilizer Co., Balto., Md.											
41009	Bull's Eye Guano	Baltimore.....	2.02	2.00	2.04	2.00	1.40	.....	9.25	8.00	47.42	44.00
41010	Corn, Wheat & Tomato Guano..	Baltimore.....	1.02	1.00	1.03	1.00	1.15	.....	8.90	8.00	32.58	30.00
41011	H. G. Super Phosphate 16%....	Baltimore	.....	.....	.....	.....	1.35	.....	16.02	16.00	32.31	32.00
41683	Soluble Phosphate..	Baltimore.....	.....	.....	2.03	2.00	1.20	.....	11.10	10.00	30.56	28.00
41012	Star Alkaline Phosphate.....	Baltimore.....	.....	.....	3.12	3.00	3.50	.....	12.90	12.00	38.98	36.00
	Ramsburg Fertilizer Co., Frederick, Md.											
41631	Ammoniated Bone Phosphate...	Monrovia.....	1.25	1.00	2.05	2.00	4.25	.....	9.30	9.00	41.00	36.00
41701	Ammoniated Superphosphate...	Middletown.....	1.01	1.00	2.16	2.00	1.87	.....	9.46	8.00	38.41	34.00
41753	Excelsior Half & Half.....	Frederick.....	.87	1.00	1.02	1.00	2.32	.....	12.04	8.00	37.79	30.00
41738	Excelsior Plant Food.....	Silver Spring	2.01	2.00	2.06	2.00	1.12	.....	9.34	8.00	47.47	44.00
41632	Old Virginia Compound.....	Monrovia	1.01	1.00	2.68	4.00	3.77	.....	8.93	8.00	40.19	42.00
41702	Plant Food.....	Middletown.....	2.04	2.00	2.02	2.00	.92	.....	9.78	8.00	48.41	44.00
41767	Queen (Low Grade).....	Middletown.....	.65	.50	1.54	1.00	1.15	.....	12.16	8.00	37.44	25.00
41634	Super Phosphate.....	Monrovia	.....	.....	.....	.....	1.22	.....	16.03	16.00	32.30	32.00
41635	Williams Wheat & Grass Fert...	Walkersville.....	1.06	1.00	1.04	1.00	3.90	.....	9.60	9.00	35.52	32.00
	Rasin-Monumental Co., Balto., Md.											
41547	Best Grain & Grass Formula...	Baltimore.....	1.79	2.00	3.68	4.00	1.62	1.00	10.53	10.00	54.33	56.40
41739	Capital Crop Compound.....	Westminster.....	1.28	1.00	3.12	3.00	1.32	.....	9.73	9.00	45.27	40.00
41548	Empire Guano.....	Baltimore.....	1.96	2.00	1.72	2.00	2.27	1.00	8.03	8.00	43.45	44.40
41757	Phosphate & Potash.....	Baltimore.....	.....	.....	1.88	2.00	1.42	.....	11.04	10.00	29 88	28.00

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Rasin-Monumental Co., Balto., Md.											
41764	Royal Manure (Low Grade)	Mt. Airy	.60	.50	.84	1.00	1.85	1.00	8.60	8.00	$27.30	$25.40
41596	Soluble Alkaline Phosphate	Baltimore	.....	.....	3.12	3.00	2.50	.....	12.40	12.00	37.78	36.00
41507	Special Fish & Bone Guano	Laurel	1.76	2.00	....	...	1.57	1.00	12 58	11.00	43.39	42.40
41572	Special Fish Mixture	Baltimore	1.45	1.00	.....	.....	1.47	1.00	11.08	10.00	37.25	30.40
41508	Wh't, Corn & Oats Mix. (L.G.)	Laurel	.58	.50	2.04	2.00	1.80	1.00	8.45	8 00	31.58	29.40
41509	Wm. Penn Crop Grower	Laurel	.77	1.00	.80	1.00	1.45	1.00	8.10	8.00	27.68	30.40
	Reindollar Co., Taneytown, Md.											
41655	Acid Phosphate	Taneytown	.....	.....	.....	.....	1.25	.....	17.60	16.00	35.45	32.00
41656	Ammoniated Phosphate	Taneytown	2.03	2.00	.....	.....	4 20	.....	13.65	12.00	49.28	44.00
41657	Rock & Potash	Taneytown	.....	.....	2.48	2.00	1.30	.....	14.48	12.00	39.14	32.00
	F. S. Royster Guano Co., Balto., Md.											
41621	Acid Phosphate 14%	Baltimore	.....	.....	.....	.....	1.30	.....	14.45	14.00	29.16	28.00
41549	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	1.47	.....	17.33	16 00	34.95	32.00
41550	Cuckoo Guano	Baltimore	1.14	1.00	1.08	1.00	1.70	.....	8.40	8.00	33.20	30.00
41703	Dreadnought Guano	Rockville	1.93	2.00	2.24	2.00	.75	.....	8.05	8.00	44.66	44.00
41597	Economy Guano	Baltimore	1.13	1.00	2.04	2.00	1.22	.....	8.53	8.00	37.01	34.00
41551	Phosphate & Potash 10-4	Baltimore	.. ..	.....	3.72	4.00	.90	.....	10 80	10.00	36.66	36.00
41598	Phosphate & Potash 10-2	Baltimore	.....	.....	2.20	2.00	1.42	.....	10.28	10.00	29.64	28.00
41623	Phosphate & Potash 12-5	Baltimore	.....	.....	4.68	5.00	.80	.....	13.15	12.00	45.18	44.00
41758	Pure Raw Bone Meal	Baltimore	4.08	4.50	.....	...	*21.25	*21.50	....	....	53.55	57.90
41624	Royal Blue Brand	Baltimore	1.06	1.00	.....	.....	1.95	.....	10.02	10.00	31.42	30.00

41624	Royal Blue Brand	Baltimore	1.06	1.00			1.95		10.02	10.00	31.42	30.00
41552	Seeding Down Guano	Baltimore	1.16	1.00	2.68	3.00	1.15		9.30	9.00	41.38	40.00
41664	Vim Guano	Baltimore	2.08	2.00	2.44	2.00	1.12		13.70	12.00	58.41	52.00
41573	Wonder Guano	Baltimore	1.67	1.00	3.04	3.00	2.07		8.03	8.00	45.75	38.00
	Scott Fertilizer Co., Elkton, Md.											
41574	Pennsylvania Potato Grower	Baltimore	.84	1.00	1.56	2.00	.85		8.40	8.00	31.78	34.00
41510	Potato Grower	Elkton	2.04	2.00	3.68	4.00	1.92		11.13	10.00	58.15	56.00
41717	Soluble Phosphate & Potash	Elkton			1.88	2.00	1.10		12.85	12.00	33.44	32.00
41718	Special Grain Grower	Elkton	1.02	1.00	1.04	1.00	.82		8.83	8.00	32.35	30.00
41511	Standard	Elkton	1.06	1.00	2.08	3.00	1.12		9.48	9.00	38.33	40.00
41512	Sure Growth Super Phosphate	Elkton	2.14	2.00	2.16	2.00	1.22		9.28	8.00	49.09	44.00
41575	Tip Top Soluble Phos. 16%	Baltimore					1.27		17.18	16.00	34.61	32.00
41513	Victory	Elkton	2.08	2.00	2.76	3.00	1.27		8.53	8.00	49.41	48.00
41514	Wheat & Grass (Low Grade)	Elkton	.65	.50	1.80	2.00	.95		8.45	8.00	30.98	29.00
	Standard Guano Co., Balto., Md.											
41636	Extra H. G. Acid Phosphate	Walkersville					.95		17.05	16.00	34.29	32.00
41599	1-8-1 Fertilizer	Baltimore	1.19	1.00	1.04	1.00	3.27		8.23	8.00	33.83	30.00
41637	Prize Wheat Grower	Walkersville	1.14	1.00	2.40	2.00	1.77		8.02	8.00	37.75	34.00
	Geo. W. Standiford, Record, Md.											
41730	Staniford's Mixture	Hyde	1.66				4.30		12.80		43.92	
	W. H. Streett & Co., Fallston, Md.											
41515	Ammoniated Dissolved Bone	White Hall	1.54	1.50	1.04	1.00	.90	.50	10.45	9.00	40.82	37.20
41516	Standard	White Hall	1.06	1.00	1.52	1.00	.75	.50	9.60	8.00	36.18	30.00
	Superior Guano Co., Baltimore, Md.											
41517	Ammoniated Dissolved Bone	Preston	1.06	1.25			2.72		10.18	10.00	32.05	32.50
41671	Ammoniated Phos. & Potash	Baltimore	1.04	1.00	1.56	2.00	1.77		8.53	8.00	34.41	34.00
41576	Big Crop Grower	Baltimore	1.79	2.00	1.88	2.00	3.12		8.58	8.00	43.83	44.00
41746	Buyers Mixture 1-12-3	Baltimore	1.11	1.00	4.04	3.00	.57		12.93	12.00	53.35	46.00
41613	Buyers Mixture 2-8-3	Baltimore	1.42	2.00	2.56	3.00	3.32		9.66	8.00	45.09	48.00
41456	Buyers Mixture 2-12-2	Ellicott City	2.10	2.00	1.76	2.00	1.23		12.62	12.00	53.77	52.00
41577	Buyers Mixture 1-10-2	Baltimore	1.52	1.00	1.72	2.00	3.62		10.24	10.00	44.01	38.00
41672	Buyers Mixture 0-12-2	Baltimore			1.48	2.00	.45		13.90	12.00	33.81	32.00
41518	Caroline Special	Preston	1.08	1.00	3.08	3.00	1.52		9.42	9.00	42.57	40.00
41519	Corn & Tomato (Low Grade)	Preston	.68	.50	1.44	1.00	.50		8.95	8.00	30.66	25.00
41520	Crop Producer	Preston	1.09	1.00	1.04	1.00	1.00		6.75	8.00	28.96	30.00
41747	Half & Half (Low Grade)	Baltimore			1.96	1.25	.65		9.60	8.00	27.17	21.00
41614	Massey's Spec. Wheat Mixture	Baltimore	.80	1.00	2.24	2.00	1.85		11.20	11.00	40.10	40.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Superior Guano Co., Baltimore, Md.											
41684	Phosphate & Potash	Baltimore	.....	.....	2.12	2.00	.75	.....	10.90	10.00	$30.43	$28.00
41748	Price Mixture ½-10 (L. Gr.)	Baltimore	.52	.50	.....	.....	.80	.....	13.02	10.00	31.56	25.00
41578	Special Bone Mixture	Baltimore	1.02	1.00	.....	.....	3.60	.....	10.05	10.00	31.74	30.00
41759	Special Crab Mixture	Baltimore	1.03	1.25	.....	.....	.87	.....	12.03	12.00	34.71	36.50
41673	Wheat & Grass	Baltimore	.....	.....	1.24	2.00	1.25	.....	10.19	10.00	25.59	28.00
	Swift & Co., Baltimore, Md.											
41696	Acid Phos. Garden City 14%	**Baltimore**	.....	.....	.....	.....	1.20	.....	14.30	14.00	28.84	28.00
41763	Acid Phosphate H. G.	Cumberland	.....	.....	.....	.....	1.37	.....	17.63	16.00	35.53	32.00
41521	Farmers Favorite (L Gr.)	Centreville	.49	.25	1.04	1.00	1.57	.....	10.78	10.00	31.25	26.50
41665	Farmers Home 0-10-4	Baltimore	.....	.....	4.76	4.00	.85	.....	11.25	10.00	41.71	36.00
41522	Grain Fertilizer	Centreville	1.01	1.00	1.76	2.00	.80	.....	8.15	8.00	33.76	34.00
41685	H. G. Grain Grower 2-10-4	Baltimore	1.75	2.00	4.20	4.00	.35	.....	8.90	10.00	52.24	56.00
41749	H. G. Special 3-12-3	Glyndon	2.78	3.00	3.28	3.00	1.10	.....	11.65	12.00	64.66	66.00
41594	Matchless 2-8-4	Camp Springs	2.35	2.00	3.64	4.00	.57	.....	7.78	8.00	53.85	52.00
41580	Monarch Phosphate & Potash	Baltimore	.....	.....	2.68	3.00	1.45	.....	12.30	12.00	35.61	36.00
41740	Phosphate & Potash	Mt. Airy	.....	.....	1.64	2.00	.70	.....	10.25	10.00	27.20	28.00
41638	Raw Bone Meal Fertilizer	Emmitsburg	4.98	4.50	.....	.....	*23.95	*23.00	.....	.....	64.17	58.80
41765	Red Steer 2-8-2	Composite of 5	2.01	2.00	2.04	2.00	.25	.....	8.68	8.00	45.72	44.00
41581	Reliable Grain Fertilizer	Baltimore	1.02	1.00	1.05	1.00	.50	.....	7.50	8.00	29.60	30.00
41639	Special Phosphate & Potash	Emmitsburg	.....	.....	2.08	2.00	.85	.....	10.02	10.00	28.53	28.00
41768	Spec. H.G. Phos. & Potash 12-5	Baltimore	.....	.....	4.50	5.00	.80	.....	12.86	12.00	43.88	44.00
41666	Special Phos. & Potash 10-2	Baltimore	.....	.....	2.08	2.00	.82	.....	11.08	10.00	30.64	28.00

41686	Wheat & Corn Grower 2-12-2...	Baltimore.....	2.03	2.00	2.24	2.00	1.47	.....	12.38	12.00	54.61	52.00
41471	Wheat & Corn Grower 2-12-2...	Centreville.....	2.01	2.00	2.04	2.00	.63	.....	13.27	12.00	55.05	52.00
41687	Wheat Grower Phos. & Potash..	Baltimore.....	.....	.....	2.12	2.00	.62	.....	12.78	12.00	34.16	32.00
	Tanner Hide & Tallow Co., Hagerstown, Md.											
41704	Bone Phosphate (Low Grade)..	Hagerstown.....	1.30	2.00	.....	.....	4.55	4.00	13.38	8.00	41.58	37 60
	H. S. Taveau & Co., Balto., Md.											
41761	Florida Phosphate 14%.....	Baltimore.....	.....	.....	.....	.....	.95	.....	14.56	14.00	29.31	28.00
41697	Wheat & Grass Comp. (L.Gr.)..	Baltimore.....	.....	.....	2.84	3.00	1.27	.....	9.39	8.00	30.39	28.00
	Thomas & Co., Frederick, Md.											
41640	Acid Phosphate.....	Frederick.....	.....	.....	.....	.....	.40	.....	16.25	16.00	32.58	32.00
41705	Crop Grower.....	Germantown.....	1.11	1.00	1.24	1.00	1.52	.....	10.37	8.00	37.41	30.00
41641	Crop Producer (Low Grade)....	Frederick.....	.55	1.00	.....	.....	.50	.....	13.50	8.00	32.70	26.00
41642	Harvest Queen.....	Frederick.....	1.31	1.25	.....	.....	1.20	.....	11.05	10.00	35.68	32.50
41706	Special Mixture.....	Gaithersburg.....	.....	.....	2.92	4.00	2.07	.....	10.36	10.00	32.81	36.00
41643	Sure Crop.....	Frederick.....	1.02	1.00	1.72	2.00	1.50	.....	9.20	8.00	36.08	34.00
	W. B. Tilghman Co., Salisbury, Md.											
41523	Acid Phosphate H. G.....	Salisbury.....	.....	.....	.....	.....	.70	.....	16.05	16.00	32.24	32.00
41525	Bone Tankage.....	Salisbury.....	1.93	2.00	2.04	2.00	1.60	.....	12.80	12.00	53.70	52.00
41719	Fish, Bone & Potash Mixture..	Salisbury.....	1.16	1.00	2.40	2.00	.50	.....	11.95	10.00	45.30	38.00
41526	H. G. Early Truck Guano.....	Pocomoke City.....	4.76	5.00	5.04	5.00	.52	.....	9.93	8.00	87.83	86.00
41524	Mixture "B".....	Salisbury.....	3.69	4.00	3.32	4.00	.92	.....	9.28	8.00	69.11	72.00
41720	Spec. Fish for Sweet Potatoes..	Salisbury.....	1.59	2.00	4.04	5.00	.87	.....	9.11	7.00	50.63	54.00
41527	Standard Fish Mixture.....	Salisbury.....	1.95	2.00	2.24	2.00	.80	.....	11.25	10.00	51.28	48.00
	J. E. Tygert Co., Phila., Pa.											
41674	Golden Harvest Phosphate.....	Baltimore.....	1.01	1.00	2.08	2.00	1.45	.....	9.35	8.00	37.70	34.00
	J. Tyson & Son, Frederick, Md.											
41644	Ammoniated Phosphate.....	Meyersville.....	1.06	1.00	2.04	2.00	2.00	.....	9.02	9.00	37.60	36.00
41645	Half & Half.....	Monrovia.....	1.13	1.00	1.08	1.00	1.37	.....	8.38	8.00	32.93	30.00
41646	XX High Grade.....	Woodsboro.....	2.05	2.00	2.16	2.00	1.82	.....	8.68	8.00	47.23	44.00
	E. S. Valliant & Son, Church Hill,											
41688	Acid Phosphate 16%.....	Baltimore.....	.....	.....	.....	.....	.95	.50	16.90	16.00	33.99	32.10
41463	Big Three.....	Salem (W. T. F.)..	1.71	1.00	3.16	3.00	1.80	.....	9.40	9.00	49.26	40.00
41675	Champion Fertilizer.....	Baltimore.....	.....	.....	.04	2.00	1.10	.50	10.55	10.00	29.48	28.10
41689	Crop Grower ½-10-½ (L. Gr.)....	Baltimore.....	.55	.50	.32	.25	2.20	.....	10.70	10.00	29.06	26.00
41600	General Crop Mixture.....	Baltimore.....	1.09	1.00	.24	1.00	3.80	.....	7.45	8.00	32.28	30.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	E. S. Valliant & Son, Church Hill,	**Md.**										
41529	Grain Grower (Low Grade).....	Church Hill.....	.58	.50	.12	.25	1.42	.....	10.73	10.00	$28.31	$26.00
41676	Ideal Fertilizer.....	Baltimore.....	1.59	1.00	2.08	2.00	1.70	.....	8.50	9.00	41.90	36.00
41690	Phosphate & Potash.....	Baltimore.....	.....	.....	4.44	3.00	2.00	.....	12.85	12.00	43.86	36.00
	W. H. Valliant & Bro., Bellevue,	**Md.**										
41721	Acid Phos. & Lime (L. Gr.)....	Bellevue.....	.....	.....	.....	.....	.75	.....	9.61	8.00	19.37	16.00
41722	Crab Scrap (Low Grade).....	Bellevue.....	2.61	2.00	.....	.....	.27	.....	1.93	2.00	30.01	24.00
41723	Fish Mixture (Low Grade).....	Bellevue.....	1.79	2.00	2.44	2.00	.75	.....	6.96	5.00	41.68	38.00
41724	10-2.....	Bellevue.....	.....	.....	2.40	2.00	.77	.....	11.28	10.00	32.31	28.00
	Virginia-Carolina Chem. Co., Rich	**mond, Va.**										
41601	Acid Phosphate 16%.....	Baltimore.....	.....	.....	.....	.....	1.87	.....	17.13	16.00	34.63	32.00
41762	1-9-3 Fertilizer.....	Baltimore.....	1.14	1.00	2.56	3.00	1.30	.....	9.79	9.00	41.74	40.00
41691	National Amm'd. Guano.....	Baltimore.....	1.02	1.00	3.24	4.00	1.72	1.00	9.48	8.00	42.81	42.40
41692	Standard Grain Grower.....	Baltimore.....	1.01	1.00	1.72	2.00	2.32	1.00	8.53	8.00	34.97	34.40
41677	Standard Phos. & Potash.....	Baltimore.....	.....	.....	2.40	2.00	2.80	.....	11.40	10.00	32.96	28.00
	Westminster Fertilizer Co., Westmi	**nster, Md.**										
41658	Governor.....	Westminster.....	1.04	1.50	.....	.....	1.60	.....	12.15	11.00	35.34	37.00
41659	Leader.....	Westminster.....	1.06	1.00	1.64	1.00	1.87	.....	10.23	9.00	38.37	32.00
41660	Super "A" (Low Grade).....	Westminster.....	1.03	1.00	.....	.....	.72	.....	10.48	9.00	31.55	28.00
	Robert A. Wooldridge Co., Balto.,	**Md.**										
41707	Acid Phosphate H. G.....	Cumberland.....	.....	.....	.....	.....	.90	.....	16.55	16.00	33.28	32.00

41707	Acid Phosphate H. G.	Cumberland					.90		16.55	16.00	33.28	32.00

41708	Ammoniated Phosphate	Cumberland	1.09	1.00	1.28	1.00	.70		9.25	8.00	34.80	30.00
41647	Basic Lime Phosphate (L. Gr.)	Woodsboro					3.15	1.00	13.75	13.00	28.13	26.20
41750	Champion Stag Phosphate	Baltimore	.94	1.00	2.12	2.00	1.02		10.03	9.00	38.35	36.00
41582	Clover Blossom	Baltimore	1.01	1.00	1.76	2.00	1.45		8.75	8.00	35.22	34.00
41583	Ideal Grain & Grass Producer	Baltimore			4.28	4.00	1.20		10.80	10.00	38.96	36.00
41602	Fish Mixture No. 1 (Low Gr.)	Baltimore	1.14	1.00	1.40	1.00	1.95		7.25	7.00	32.28	28.00
41751	Fish Mixture No. 2	Baltimore	2.01	2.00	2.04	2.00	.92		9.38	8.00	47.39	44.00
41698	General Crop Grower (L. Gr.)	Baltimore	1.02	1.00			1.27		8.53	8.00	27.77	26.00
41667	Liberty Bell Potash Mixture	Baltimore			3.04	3.00	1.22		13.68	12.00	39.76	36.00
41584	No. 1 Phos. & Potash (L. Gr.)	Baltimore			1.72	3.00	1.35		6.20	6.00	19.55	24.00
41699	Old Sledge Phosphate	Baltimore			4.68	5.00	1.37		13.58	12.00	46.15	44.00
41585	Surety Crop Grower	Baltimore	1.08	1.00	3.36	3.00	1.07		9.18	9.00	43.03	40.00
41668	Triangle Brand	Baltimore	1.06	1.00	4.44	4.00	1.40		9.15	9.00	47.22	44.00
	Worcester Fertz. Co., Snow Hill.	**Md.**										
41725	Acid Phosphate 16%	Snow Hill					.62		17.83	16.00	35.78	32.00
41530	Corn Producer	Snow Hill	1.02	1.00	2.88	2.00	.95		8.20	8.00	38.50	34.00
41531	Fish, Bone & Potash	Snow Hill	1.91	2.00	2.03	2.00	.95		6.90	8.00	41.40	44.00
41532	Fish, & Potash Mixture	Snow Hill	2.87	3.00	2.92	4.00	1.35		11.05	8.00	63.02	62.00
41533	Guilt Edge Potash Mixture	Snow Hill	3.62	4.00	4.08	4.00	1.35		10.27	8.00	73.60	72.00
41726	Special Potash Mixture	Snow Hill	1.11	1.00	4.04	4.00	.90		9.60	8.00	46.82	42.00
41727	Spec. Wheat & Grass Mixture	Snow Hill	1.13	1.00	2.08	2.00	.80		9.85	8.00	39.64	34.00
41728	12 & 3	Snow Hill			2.76	3.00	1.05		12.70	12.00	36.65	36.00
41729	Wheat & Grass Mixture	Snow Hill	1.16	1.00	2.08	2.00	.87		10.63	10.00	41.53	38.00

TABLE II

SECOND SUPPLEMENT—REGISTRATION OF FERTILIZERS FOR 1920

Registration After August, 1920.

For Previous Registrations See February and August Quarterlies Nos. 87 and 89

For Key See Page 35

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Beckley Fertz. Co., Halfway, Md.			
Potash and Sol. Phosphate	0	10 R	2 KD
Farmers' Friend	1 ACt	10 "	0
Grain Special	0	10 "	3 "
N. T. Bennett, New Windsor, Md.			
Butcher House Phos	1 Tt	9 R	2 K
1–11	1 "	11 "	0
Central Chemical Co., Hagerstown, Md.			
Royal	0	12 R	3 KD
Excelsior	2 ACTt	8 "	4 "
Farmers' Mixture	1 CAT	8 "	2 "
Truck Special	3 NCAT	10 "	0
Ammoniated Phosphate (L. Gr.)	½ At	8 "	0
Phoenix (L. Gr.)	½ At	8 "	½ K
Columbia Guano Co., Baltimore, Md.			
Phosphate and Potash 10–4	0	10 RA	4 MKD
Marvel Guano	1 FT	9 RB	3 "
Eastern Guano Co., New York, N. Y.			
Valley Queen	1 CAt	9 R	3 KD
Horsey, Roe & Co., Greensboro, Md.			
1–8–2	1 T	8 R	2 K
10–4	0	10 "	4 "
16	0	16	0
Huston, Darbee & Co., Seaford, Del.			
Double Potash Mixture	0	12 R	5 M
Acid Phosphate	0	14	0
Acid Phosphate	0	16	0
F. S. Royster Guano Co., Baltimore, Md.			
Genuine German Kainit	0	0	12
Excello Guano	2 FT	10 RA	4 SKD
Pure Raw Bone Meal	4½	21.50*	0
Swift & Co., Baltimore, Md.			
Grain Fertilizer No. 2	1 NAT	9 R	2 M
Wm. B. Tilghman Co., Salisbury, Md.			
Bone Tankage Mixture	2 NFT	12 RF	2 D
Special 1–9–3	1 NFMT	9 "	3 "
Special 1–12–2	1 "	12 "	2 "
Tyson Fert.Wks.(C.C.Co.), Frederick, Md.			
Half and Half	1 TNAC	8 R	1 KD

TABLE III

FERTILIZER REGISTRATIONS FROM JANUARY 1 TO MARCH 1, 1921

For Key See Page 35

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Associated Chem. Co., Hagerstown, Md.			
Fine Bone Meal	3	23.00*	0
Pure Raw Bone	4½	20.00*	0
Nitrate of Soda	18¼	0	0
Amer. Agr'l Chem. Co., New York, N. Y.			
14% Acid Phosphate	0	14	0
16% Acid Phosphate	0	16	0
Basic Lime Phosphate (L. Gr.)	0	13 R	0
Dissolved Phos. and Potash	0	10 R	2 MKD
Superior Phosphate and Potash	0	12 "	3 "
H. G. Phosphate and Potash	0	10 "	4 "
Ammoniated Superphos. (L. Gr.)	1 TNAC	8 RFT	0
Ammoniated Fertilizer A	1 "	10 "	0
Ammoniated Fertilizer AA	2 "	10 "	0
Ammoniated Fertilizer AAA	3 "	10 "	0
5–8–0 Fertilizer	5 "	8 "	0
Fish Guano 1916	1 FT	8 "	1 MKD
The Pathfinder 1920	1 TNFAC	9 "	1 "
White Oak Compound	1 "	12 "	2 "
Vegetator	2 "	8 "	4 "
Red Dragon Guano	2 "	12 "	2 "
Early Truck Grower	5 "	7 "	5 "
Big Crop 7% Potato Fertilizer	7 "	6 "	5 "
Dissolved Animal Bone	2½	12	0
Pure Bone Meal	4½	21.50*	0
Fine Ground Bone	3	22.88*	0
Nitrate of Soda	18.23	0	0
A. A. C. Co.,(Canton Brands), Balto., Md.			
Eagle Phosphate (L. Gr.)	1 TNFAC	7 RTF	1 MKD
Harrow Brand Crop Grower	1 "	8 "	1 "
Resurgam Guano	1 "	8 "	4 "
Bk's Spec. Wht., Corn and Grass Mix.	1 "	9 "	2 "
Baker's Fish Guano	2 "	8 "	2 "
Baker's Standard Guano	2 "	8 "	3 "
CCC Special Compound	3 "	8 "	4 "
A. A. C. Co.(Detrick Brands), Balto., Md.			
Imperial Compound	1 TNFAC	8 RTF	2 MKD
Corn and Oats Fertilizer	1 "	9 "	2 "
Standard Potash Fertilizer	1 "	9 "	3 "
Royal Crop Grower	2 "	8 "	2 "
Kangaroo Komplete Kompound	2 "	8 "	3 "
Quickstep Fertilizer	3 "	8 "	4 "
Gold Basis	7 "	6 "	5 "
A. A. C. Co.(Lazaretto Br'ds), Balto., Md.			
Excelsior AAA (L. Gr.)	1 TNFAC	7 RTF	1 MKD
Ammoniated Phosphate, 1916	1 "	8 "	1 "
Farmers' Choice Brand	1 "	8 "	2 "
Tomato Compound	1 "	8 "	4 "
Special Potato Fertilizer	1 "	8 "	4 "
Crop Grower	2 "	8 "	2 "
Farmers' Reliable	2 "	10 "	2 "
A. A. C. Co.(Listers' Bds.), Newark, N. Y.			
Corn and Potato Fertilizer	2 TNAFC	8 RFT	3 MKD
Standard Pure Superphos	3 "	9 "	2 "
Golden Sheaf	1 "	8 "	1 "
Special Tobacco Fertilizer	2 "	8 "	3 "
Special Vegetable Manure	4 "	8 "	3 "
Special 7% Potato Guano	7 "	6 "	5 "
Buyers' Choice Acid Phos	0	14	0
H. G. Acid Phosphate	0	16	0
Grain and Grass Fertilizer Rev	0	10 "	2 "
Soluble Crop Grower	0	12 "	3 "
Plant Food, 1916	1 "	10 "	0
Bone Meal, 1916	3 "	22.88*	0
5% Vegetable Fertilizer	5 "	7 RFT	5 "
Squirrel Brand Fertilizer	1 "	8 "	2 "

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
A. A. C. Co.(Listers' Bds.), Newark, N. J.			
ABC Fertilizer	2 TNAFC	12 RFT	2 MKD
Crescent Amm'd Superphos., 1916	2 "	10 "	0
Special Crop Producer	1 "	7 "	1 "
Harvest Queen Phos. Rev	1 "	9 "	3 "
G. Brand	1 "	8 "	4 "
Soil Improver (L. Gr.)	1 "	8 "	0 "
Fish Brand Fertilizer	1 "	9 "	2 "
Success Fertilizer	2 "	8 "	2 "
Big Crop Grower	2 "	8 "	4 "
Special Truck Fertilizer	4 "	8 "	4 "
Special Wheat Fertilizer	2 "	8 "	3 "
A.A.C.Co.(Susquehanna Bds.), Balto., Md.			
H. G. Superphosphate	6	16	0
Alkaline Phosphate	0	10 R	2 MKD
Arrow Brand (L. Gr.)	1 TNFAC	8 RTF	0
Crop Grower (L. Gr.)	1 "	7 "	1 "
Amm'd Superphosphate Revised	2 "	8 "	2 "
Potato and Tobacco Phosphate	2 "	8 "	3 "
A. A. C. Co.(Slingluff Br'ds), Balto., Md.			
10% Tobacco Plant Bed Fert	10 TNFAC	5 RTF	2 MKD
A. A. C. Co.(Zell Brands), Balto., Md.			
16% Acid Phosphate	0	16	0
Electric Phosphate	0	10 R	2 MKD
Economizer Phosphate	1 TNAFC	8 RTF	2 "
Hustler Phosphate	1 "	9 "	3 "
Ammoniated Superphosphate	2 "	8 "	2 "
Special Compound	3 "	8 "	4 "
Truck Grower	5 "	7 "	5 "
A. A. C. Co. (Jos. Cope & Co. Brands), Baltimore, Md.			
H. G. Superphosphate	0	16	0
Fish Phosphate (L. Gr.)	1 FT	8 RFT	0
Bono Phosphate	1 TNFAC	9 "	3 MKD
Potato, Corn and Tobacco	2 "	8 "	4 "
A. A. C. Co.(W. S. Farmer & Co. Brands), Baltimore, Md.			
H. G. Superphosphate	0	16	0
General Crop Grower (L. Gr.)	1 TNFAC	7 RFT	1 MKD
Clyde Brand, 1916	1 "	8 "	1 "
Harvest Queen	1 "	9 "	3 "
Potash Guano	1 "	8 "	4 "
Fish Mixture	2 "	8 "	2 "
Standard Phosphate	2 "	8 "	4 "
Anne Arundel Trucker	5 "	7 "	5 "
Potato Guano	7 "	6 "	5 "
A. A. C. Co. (Pollock Fertilizer Brands), Baltimore, Md.			
H. G. Superphosphate	0	16	0
Our Brand Guano (L. Gr.)	1 TNFAC	8 RTF	0
Ammoniated Fertilizer AA	2 "	10 "	0
Ammoniated Fertilizer AAA	3 "	10 "	0
Corn and Oats Special (L. Gr.)	1 "	7 "	1 MKD
Corn, Wheat and Tomato Guano	1 "	8 "	1 "
Special Wheat and Corn Fert	1 "	8 "	2 "
Crop Invigorator	1 "	8 "	4 "
Bull's Eye Guano	2 "	8 "	2 "
Special Potato and Tobacco Fert	2 "	8 "	4 "
A. A. C. Co.(M. E. Wheeler & Co. Brands), Rutland, Vt.			
H. G. Acid Phosphate	0	16	0
Wheat and Clover Fertilizer	0	10 R	2 MKD
Ammoniated Corn Phosphate	2 TNFAC	10 RTF	0
Spec. Tomato Fert., 1920 (L. Gr.)	1 "	7 "	1 "
Royal Wheat Grower	1 "	8 "	2 "
Corn Fertilizer	2 "	8 "	2 "
Potato Manure, 1920	2 "	8 "	3 "
Complete Manure	5 "	7 "	5 "
H. G. Truck Fertilizer	7 "	6 "	5 "

FIRM AND BRANDS	PER CENT AND SOURCES OF					
	Ammonia (or Nitrogen)		Phosphoric Acid Available		Potash Soluble	
A. A. C. Co. (R. A. Wooldridge Co. Brands), Baltimore, Md.						
H. G. Acid Phosphate	0		16		0	
Lime Phosphate (L. Gr.)	0		13		0	
American Potash Mixture	0		10	R	2	MKD
Liberty Bell Potash Mixture	0		12	"	3	"
General Crop Grower (L. Gr.)	1	TNFAC	8	RFT	0	
Old Fidelity Phosphate	2	"	10	"	0	
Fish Mixture No. 1 (L. Gr.)	1	"	7	"	1	MKD
Ammoniated Phosphate	1	"	8	"	1	"
Clover Blossom	1	"	8	"	2	"
Triangle Brand	1	"	8	"	4	"
Champion Stag Phosphate	1	"	9	"	2	"
Surety Crop Grower	1	"	9	"	3	"
Fish Mixture No. 2	2	"	8	"	2	"
Chieftain Phosphate	2	"	8	"	2	"
Triumph Brand Phos. Revised	2	"	8	"	3	"
Spec. Potato and Tob. Fert. Rev.	2	"	10	"	2	"
Sovereign Trucker	5	"	7	"	5	"
Golden Crown Truck Phosphate	7	"	6	"	5	"
American Fertilizing Co., Balto., Md.						
Best Truck and Vegetable Formula	4	TNCAt	10	R	6	SMKTDc
Best Potato Formula	4	"	8	"	6	"
Best Crop Formula	2	"	10	"	6	"
Eastern Shore Potato Special	7	"	6	"	5	"
Early Truckers' Special	5	"	6	"	5	"
Excelsior Guano	2	"	8	"	5	"
Stable Manure Substitute	3	"	7	"	4	"
Best Grain and Grass Formula	2	"	10	"	4	"
Champion Grain Grower	1	"	8	"	4	"
Fish and Bone Compound	2	"	8	RB	3	"
Grain and Grass Grower	1	"	9	R	3	"
Premium Grain and Clover Mixed	2	"	12	"	2	"
Eagle Crop Grower	2	"	8	"	2	"
Ammoniated Crop Compound	1	"	8	"	2	"
Special Formula (L. Gr.)	½	"	8	"	2	"
Strawberry and Pea Special	7	"	6	"	1	"
Reliable Guano	1	"	8	"	1	"
Special Formula (L. Gr.)	½	"	8	"	1	"
Truck Ammoniated Superphosphate	5	"	8	"	0	
Fish and Bone Special	2	"	11	RB	0	
Champion Ammoniated Phosphate	2	"	10	R	0	
Special Fish Guano	1	"	10	"	0	
Reliable Grain Formula (L. Gr.)	½	"	10	"	0	
Formula for Wheat and Corn	0		10	"	5	SMKTDc
Prize Alkaline Phosphate	0		12	"	3	"
Dissolved Phosphate and Potash	0		10	"	2	"
Phosphate and Potash (L. Gr.)	0		10	"	1	"
H. G. Acid Phosphate	0		16		0	
Acid Phosphate	0		14		0	
Armour Fertilizer Works, Balto., Md.						
Big Crop Acid Phos. 16%	0		16		0	
Big Crop 0–10–5	0		10	R	5	MKD
Big Crop 2–12–0	2	TAFNb	12	RTFb	0	
Big Crop 4–10–0	4	"	10	"	0	
Big Crop 2–12–2	2	TANF	12	RTF	2	"
Big Crop 2–10–4	2	"	10	"	4	"
Big Crop 2–8–5	2	"	8	"	5	"
Big Crop Bone Mixture 2–9–3	2	TBNAF	9	RBTF	3	"
Big Crop 3–8–3	3	NAD	8	R	3	S
Big Crop 4–8–4	4	TANFb	8	RTFb	4	MKD
Big Crop 5–8–3	5	ATNFD	8	RTF	3	"
Big Crop 5–8–5	5	"	8	"	5	"
Big Crop 6–8–5	6	"	8	"	5	"
Big Crop 7–6–5	7	"	6	"	5	"
Phosphate and Potash No. 1	0		10	R	2	"
Grain Special	2	ATNFb	10	RTFb	0	
Big Crop Bone Meal	3		22*		0	
Big Crop Raw Bone Meal	4½		21.50*		0	
Big Crop Nitrate of Soda	18.		0		0	
Wheat, Corn and Oats Special	1	TNb	7	RTb	1	MKD
Crop Grower	1	"	8	"	2	"

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Armour Fertilizer Works, Balto., Md.			
Royal Ammoniated	1 TNb	8 RTb	4 MKD
Grain Grower	2 TANFb	8 RTFb	2 "
Tuscarora Brands—			
Acid Phosphate 16	0	16	0
Phosphate and Potash	0	10 R	2 "
Alkaline	0	10 "	5 "
Grain Special	2 TANFb	10 RTFb	0
Cereal Special No. 4	2 "	12 "	0
Ammoniated Phosphate (L. Gr.)	1 TNb	7 RTb	1 "
Crop Grower	1 "	8 "	2 "
York State Special	1 "	8 "	4 "
Standard	2 TANFb	8 RTFb	2 "
Big 4	2 TANF	7 RTF	4 "
Cereal Special No. 3	2 "	12 "	2 "
Cereal Special No. 2	2 "	10 "	4 "
Barrett Co., New York, N. Y.			
Arcadian Sulphate of Ammonia	25¼	0	0
Baugh & Sons Co., Baltimore, Md.			
Raw Bone Meal	4½	21.50*	0
Pure Steamed Bone	2	25.*	0
3 and 50 Bone Meal	3	23.*	0
Half and Half Mixture	1½ B	12 RB	0
16% Acid Phosphate	0	16	0
14% Acid Phosphate	0	14	0
12 and 5 Phos. and Potash Mixture	0	12 R	5 MSKc
Soluble Alkaline Super Phos	0	10 "	2 "
Nitrate of Soda	18.50	0	0
Tankage (L. Gr.)	7	0	0
7% Potato Guano	7 BTAFD	6 RTB	5 "
Peruvian Guano Substitute	5 "	6 "	5 "
Farmers' Friend Guano	5 "	6 "	7 "
Fish Bone and Potash	4 "	8 "	4 "
Special Tobacco Manure	4 "	8 "	4 "
Grand Rapid Guano	3 "	8 "	3 "
Yucatan Tobacco Guano	3 "	8 "	3 "
Complete Animal Base Fert	2 "	8 "	5 "
Animal Base and Potash Compound	2 "	8 "	2 "
Tomato Compound	2 "	8½ "	2 "
Double Eagle Phosphate	2 "	10 "	1 "
Special Potato Manure	2 "	8 "	5 "
Commercial Super Phosphate	2 "	8 "	10 "
Excelsior Guano	1 "	8 "	4 "
General Crop Grower	1 "	8 "	1 "
Special Vegetable Compound	1 "	9 "	3 "
New Process 10% Guano	10 "	5 "	0
Corn and Oats Fertilizer	2 "	10 "	0
Fish, Bone Guano	2 "	10 "	1 "
Old Stand By	2 "	12 "	0
Peninsula Grain Prod. (L. Gr.)	1 "	9 "	0
Genuine Imported Kainit	0	0	12.40
Central Chemical Co., Hagerstown, Md.			
Gro-all Grain and Grass Grower	2 TNCt	12 R	2 MD
Gro-all Crown Jewel	1 "	9 "	3 "
Gro-all Dis. Bone Compound	2.25 TNC	13 RT	0
Gro-all Planters' Compound	2 TNCt	10 R	0
Gro-all Fish Compound	1½ NFC	10 "	0
Gro-all Valley Mixture	2 NTCt	8 "	2 "
Gro-all Golden Sheaf	1 "	8 "	1 "
Gro-all Commonwealth	0	10 "	2 "
Gro-all Dissolved Phosphate	0	16	0
Gro-all Pride of the Valley	1 "	10 "	0
Gro-all Tobacco Bed Special No. 1	7 FATC	4 R	0
Gro-all Tobacco Bed Special No. 2	10 "	4 "	0
Gro-all Corn and Truck Grower	4 FNTC	8 "	3 D
Columbia Guano Co., Baltimore, Md.			
16% Acid Phosphate	0	16	0
8-5 Phosphate and Potash	0	8 RT	5 M
10-2 Phosphate and Potash	0	10 "	2 MD
12-5 Phosphate and Potash	0	12 "	5 M
Gem Brand	1 AFT	10 R	0
Duplex Brand	2 "	10 "	0

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Columbia Guano Co., Baltimore, Md.			
Goodwill Guano	1 AFT	8 R	1 MD
Capital Guano	1 "	8 "	2 "
Extra Dry Guano	1 "	8 "	3 "
Soluble Guano	2 "	8 "	2 "
Prize Guano	2 "	8 "	5 M
Fish and Potash	2 "	8 "	3 MD
7% Potato Guano	7 "	6 RT	5 M
Potato Guano	5 "	7 "	5 "
L. E. P. Dennis & Son, Crisfield, Md.			
7% Potato Grower	7 NAF	6 RF	5 "
Round Potato Mixture	5 "	6 "	5 "
No. 1 Fish Mixture	3 NF	7 "	5 MK
Economy Fish Mixture	2 "	8 "	3 K
Klondike Fish Mixture	1 F	8 "	3 "
Earp-Thomas Cultures Corp., N. Y., N. Y.			
Stim-U-Plant	11 A	12 R	15 SM
Farm. Exchange Co., Union Bridge, Md.			
Union Bridge Favorite	1 TCA	8 RT	2 K
Farm. Fert. & Feed Co., Westminster, Md.			
High Grade Phosphate	2 TFNAt	11 R	2 MKD
No. 2 Phosphate	2 "	9 "	2 "
No. 3 Phosphate	1½ "	8 "	3 "
XX Phosphate	2 "	8 "	5 "
Acid Phosphate	0	16	0
Farm. & Planters Co., Salisbury, Md.			
High Grade 7%	7 ANFb	6 R	5 M
Early Vegetable	5 "	8 "	5 "
Early Truck	4 "	8 "	4 "
Sweet Potato Special	3 "	8 "	7 "
Truckers' Mixture	3 "	8 "	4 "
Special Fish Mixture	2 "	8 "	5 "
Fish Mixture	2 FTb	8 "	2 MK
General Crop Grower	1 "	10 "	2 "
Special Potash Mixture	0	12 "	5 "
F. & P. Peerless (L. Gr.)	½ "	8 "	2 "
Griffith & Boyd Co., Baltimore Md.			
Blood, Bone and Potash	5 NBDTAb	8 RBT	3 MD
Stable Manure Substitute	3½ "	5 "	4 "
Fish, Bone and Potash	1.75 "	7 RFBT	2 MK
Royal Potash Guano	1 NTb	8 RT	4 MD
Peerless Fertilizer (L. Gr.)	½ Tb	8 "	2 KD
Fish and Bone Mixture (L. Gr.)	1.75 NFTb	7 RFBT	0
Peerless Mixture (L. Gr.)	½ Tb	8 RT	0
Farmers' Queen	1 NTb	9 "	3 MK
Cereal Plant Food	1 "	8 "	2 "
Dissolved Animal Bone	2½	10	0
H. G. 16% Acid Phosphate	0	16	0
Special Grain Grower	0	10 R	2 K
Pure Fine Ground Bone Meal	4	20.*	0
Soft Ground Bone Meal	3	11.*	0
Farmers' Potato Manure	1 NTb	8 RT	6 MD
Special Guano	2 NDTAb	8 "	5 "
Special Formula	2 "	8 "	5 "
Standard Guano	2 "	12 "	2 "
14% Acid Phosphate	0	14	0
Fish and Potash Guano	1.75 NFTb	7 RFT	3 MK
Valley Fertilizer (L. Gr.)	.75 Tb	8 RT	3 "
XX Potash Manure	0	10 R	5 MD
Accomac Trucker	5 NTADb	6 RT	5 "
Tobacco and Vegetable Grower	3 "	8 "	3 M
General Crop Grower	2 "	8 "	2 MK
Spring Crop Grower	2 "	6½ "	4½ MD
Reliable Crop Grower	1 NTb	8 "	1 K
Griffith & Turner Co., Baltimore, Md.			
Amm'd Alkaline Plant Food (L. Gr.)	1 NTb	6 RT	1½ K
Amm'd Butchers' Bone Phosphate	1¼ "	9 "	1½ "
Special Potato Guano	1 "	8 "	4 MD
Hampstead Fert. Co., Hampstead, Md.			
1-8-2	1 TNA	8 RT	2 KD
2-8-4	2 "	8 "	4 "
16% Acid Phosphate	0	16	0

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
J. Geo. Harr, Baltimore, Md.			
Fish and Potash Mixture	2 BTFN	8 RBF	2 KD
Comet	2 BTN	10 RBA	0
Bright Star	1 TN	8 RA	1 K
S. M. Hess & Bro., Inc., Phila., Pa.			
Acid Phosphate	0	14	0
Acid Phosphate	0	16	0
Standard Alkaline	0	8 RF	5 MKD
Soluble Phosphate and Potash	0	10 "	2 "
Cereal Alkaline	0	12 "	3 "
Ammoniated Grain Grower (L. Gr.)	1 NTAFC	8 "	0
Standard Super Phosphate	1 "	10 "	0
Superior Super Phosphate	2 "	10 "	0
Keystone Phosphate	1 "	8 "	1 "
Wheat, Corn and Grass Manure	1 "	8 "	2 "
Special Compound	1 "	8 "	4 "
Farmers' General Fertilizer	1 "	10 "	1 "
Fish and Potash Manure	2 "	8 "	3 "
Superior Potato Manure	4 "	8 "	4 "
Special Potato Manure	4 "	8 "	6 "
Vegetable Compound	5 "	8 "	4 "
Peninsula Special Manure	5 "	7 "	5 "
H. G. Trucking Manure	7 "	6 "	5 "
Horsey, Roe & Co., Greensboro, Md.			
Pea Grower, 2-8-3	2 NT	8 R	3 MK
Crop Producer, 1-8-4	1 T	8 "	4 "
1-8-2	1 "	8 "	2 K
12-5	0	12 "	5 MK
16% Acid Phosphate	0	16	0
Hubbard Fertilizer Co., Baltimore, Md.			
7% Royal Seal	7 NTA	6 R	5 MKD
5% Royal Seal	5 "	6 "	5 "
Yellow Wrapper	3 "	8 "	3 "
Excelsior Mixture	2 "	10 "	0
Money Maker Fertilizer	2 "	8 "	5 "
Farmers' I. X. L.	2 "	8 "	2 "
Oriental Guano	1 "	10 "	0
1-8-3 Fertilizer	1 "	8 "	3 "
Fish Mixture	1 "	8 "	1 "
Phosphate and Potash	0	10 "	2 "
16% Phosphate	0	16	0
Tobacco Bed Fertilizer	10 "	2 "	0
Pure Raw Bone	4½	22.50*	0
Huston, Darbee & Co., Seaford, Del.			
Potato Mixture	5 FATD	8 R	5 M
Truck Guano	4 FNAT	8 "	5 "
Sweet Potato Mixture	3 FNA	9 "	5 "
Sweet Potato Mixture	2 "	9 "	5 "
Fish Mixture	2 FNb	9 "	2 D
Crop Grower	1 Tb	9 "	2 "
Trucker	3 FNA	9 "	2 "
Acid Phosphate	0	16	0
Martin Fertilizer Co., Phila., Pa.			
Potato Guano	7 NATDC	6 R	5 M
High Grade Trucker	5 "	6 "	5 "
Truckers' Special	4 "	8 "	8 "
Maryland Guano Co., Cambridge, Md.			
Fish, Bone and Pot. Mix. (L. Gr.)	½ BFA	8 "	¼ MSN
Fish Mixture No. 1	1 AF	8 "	1 "
Corn and Tomato Fish Mixture	2 "	8 "	2 "
Dissolved Bone Phosphate	0	10 "	4 "
Bell Potash	0	12 "	3 "
Big 4 Crop Grower (L. Gr.)	1 AFBD	8 "	0
New Triumph	1½ "	8 "	4 "
Bull Head Phosphate	0	16	0
Medford Fertilizer Works, Medford, Md.			
Number 2	1 t	8 "	1 K
Natural Guano Co., Aurora, Ill.			
Pulverized Sheep Manure (L. Gr.)	2.73	1	1.50
J. B. Nichols & Son, Baltimore, Md.			
Farmers' Friend Fertilizer	4 ANFTD	8 RTF	1 SN

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
G. Ober & Sons Co., Baltimore, Md.			
Gold Seal Tobacco Guano	3 ACNFTDB	8 RTF	1 N
Avondale Amm'd Dissolved Bone	2 "	8 "	1 "
Acco Potash Potato Guano	5 "	7 "	5 S
Golden Top Wht. and Corn Grower	1 "	9 "	3 N
Special Plant Food	2 "	9 "	5 "
SwanE Fish Guano	2 "	9 "	3 "
Sea-Bird Guano	2 "	10 "	4 "
Red Seal Corn and Wheat Guano	2 "	12 "	2 "
Stag Guano	1 "	9 "	4 "
Farmers' Stand. Amm'd Phosphate	2 "	8 "	2 "
Farmers' Mixture	1 "	9 "	2 "
Independent Amm'd Super Phos	1 "	8 "	1 "
Twelve and Five Potash Compound	0	12 "	5 "
10% Super Phos. and Pot. Compound	0	10 "	2 "
Royal Fish and Potash Compound	2 "	9 "	1 "
Edelen's H. G. Tobacco Guano	4 "	6 "	1 "
Stand. Southern Vegetable Fertilizer	7 "	6 "	5 "
Climax Ammoniated Compound	2 "	12 "	0
Electro Compound	1 "	10 "	0
Liberty Fish Guano	1¼ "	13 "	0
Sun Beam Guano	2 "	10 "	0
Spec. Tob. Bed Fertilizer, 10%	10 "	4 "	0
Md. Pride Tob. Bed Guano, 6%	6 "	6 "	0
Pure Raw Bone Meal	4½ "	21.00*	0
Pure Bone Meal	3 "	22.00*	0
High Grade Acid Phosphate	0	16	0
Dissolved Phosphate	0	14	0
Edelen's Brands—			
Special Tobacco Guano	3 "	8 "	1 "
Spec. Tob. Bed Fertilizer, 10%	10 "	4 "	0
Wheat and Grain Mixture	1 "	8 "	1 "
Oyler & Spangler Fer. Co., Gettysburg, Pa.			
Special	2 TCt	11 RT	0
Super Phospate (L. Gr.)	1 Ct	9 R	0
16%	0	16	0
Patapsco Guano Co., Baltimore, Md.			
Pure Dissolved S. C. Phosphate	0	14	0
High Grade Acid Phosphate	0	16	0
Alkaline Mixture	0	8 RT	5 MD
Potash Mixture	0	10 "	4 "
Sol. Phosphate and Potash	0	10 "	2 "
Balto. Soluble Phosphate	0	12 "	3 "
Farmers' Reliance (L. Gr.)	1 TFNAC	8 "	0
Ammoniated Compound	1 "	10 "	0
Golden Crop Fertilizer, 1916	2 "	10 "	0
General Crop Producer (L. Gr.)	1 "	7 "	1 "
Blood, Bone and Potash Revised	1 "	8 "	1 "
Sea Gull Guano	1 "	8 "	1 "
Money Maker	1 "	8 "	2 "
Grain and Grass Producer	1 "	8 "	4 "
Possum Brand	1 "	9 "	1 "
Coon Brand Guano	1 "	9 "	2 "
Big Chief Brand with Potash	1 "	9 "	3 "
Fish Guano Revised	1 "	10 "	1 "
Guano	2 "	8 "	2 "
Tobacco and Potato Fertilizer	2 "	8 "	4 "
Golden Sheaves	2 "	12 "	2 "
Complete Manure	3 "	8 "	4 "
Potato Manure with Potash	4 "	8 "	3 "
Garden and Truck Fertilizer	4 "	8 "	4 "
Early Trucker	5 "	7 "	5 "
Plant Bed Fertilizer	10 "	5 "	2 "
Fine Ground Bone	3 "	22.88*	0
Lime Phos.–Crow Brand (L. Gr.)	0	13	0
Nitrate of Soda	18.23	0	0
Peerless Fert. Co., Chestertown, Md.			
Old Reliable (L. Gr.)	1 BT	8 RB	0
Fish Mixture (L. Gr.)	2 BHFN	8 RFB	0
Ford's Ideal (L. Gr.)	½ BT	8 RB	3 M
Corn Fertilizer (L. Gr.)	½ T	8 R	0
Wheat and Clover (L. Gr.)	1 TBH	8 RB	0

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Poultry Feed Co., Chicago, Ill.			
Premier Pulv. Poultry Man.(L. Gr.)..	5	1.70	1.30
Rasin-Monumental Co., Balto., Md.			
Best Truck and Vegetable Formula..	4 TNACNat	10 R	6 SMKTND
Special Potato Formula.....	4 "	8 "	6 "
Best Crop Formula.....	2 "	10 "	6 "
Eastern Shore Potato Special.....	7 "	6 "	5 "
Early Truckers' Special.....	5 "	6 "	5 "
All Crop Guano.....	1 "	8 "	5 "
Best Grain and Grass Formula.....	2 "	10 "	4 "
National Crop Compound.....	1 "	8 "	4 "
Royal Fish, Bone and Potash.....	2 "	8 RB	3 "
Capital Crop Compound.....	1 "	9 R	3 "
Capital Grain and Clover Compound..	2 "	12 "	2 "
Empire Guano.....	2 "	8 "	2 "
United Grain Grower.....	1 "	8 "	2 "
Wht., Corn and Oats Mix. (L. Gr.)....	½ "	8 "	2 "
Wm. Penn Crop Grower.....	1 "	8 "	1 "
Royal Manure (L. Gr.).....	½ "	8 "	1 "
Special Fish and Bone Guano.....	2 "	11 RB	0
Special Crop Preparation.....	2 "	10 R	0
Special Fish Mixture.....	1 "	10 "	0
Royal Superphosphate (L. Gr.).....	½ "	10 "	0
H. G. Phosphate and Potash.....	0	12 "	5 "
Special Phosphate and Potash.....	0	10 "	5 "
Special Potash Mixture.....	0	8 "	5 "
Soluble Alkaline Phosphate.....	0	12 "	3 "
Special Alkaline Mixture (L. Gr.)....	0	8 "	3 "
Victoria Phosphate and Potash.....	0	12 "	2 "
Phosphate and Potash Fertilizer.....	0	10 "	2 "
Phosphate and Potash (L. Gr.).....	0	10 "	1 "
16% Acid Phosphate.....	0	16	0
Acid Phosphate.....	0	14	0
Seawall Special (L. Gr.).....	0	10 "	0
Special Corn Mixture (L. Gr.).....	0	10 "	0
Reindollar Co., Taneytown, Md.			
Ammoniated Phosphate.....	2 TN	12 R	0
Rock and Potash.....	0	12 "	2 MK
Acid Phosphate.....	0	16	0
F. S. Royster Guano Co., Balto., Md.			
14% Acid Phosphate.....	0	14	0
16% Acid Phosphate.....	0	16	0
8–5 Phosphate and Potash.....	0	8 R	5 M
10–2 Phosphate and Potash.....	0	10 "	2 MD
12–3 Phosphate and Potash.....	0	12 "	3 "
12–5 Phosphate and Potash.....	0	12 "	5 M
Royal Blue Brand.....	1 AFT	10 RT	0
Honor Brand.....	2 "	10 "	0
Keystone Brand.....	2½ "	12 "	0
Cuckoo Guano.....	1 "	8 "	1 MD
Economy Guano.....	1 "	8 "	2 "
Wonder Guano.....	1 "	8 "	3 "
Fish and Potash.....	2 "	8 "	1 "
Dreadnought Guano.....	2 "	8 "	2 "
Fish, Flesh and Fowl.....	2 "	8 "	3 "
Vim Guano.....	2 "	12 "	2 "
Excello Guano.....	2 "	10 "	4 "
Prime Fish Brand (L. Gr.).....	2 "	8 "	0
Bully Guano.....	2 "	8 "	5 M
Arrow 7% Potato Guano.....	7 "	6 "	5 "
Ripper Potato Guano.....	5 "	7 "	5 "
5% Trucker.....	5 "	8 R	0
Scout Guano.....	2 "	8 RT	7 "
Mystic Truck Guano.....	6 "	8 "	5 "
Scott Fertilizer Co., Elkton, Md.			
Sure Growth Compound.....	4 TNF	8 R	4 K
Victory Brand.....	2 TAt	8 "	3 "
Potato Grower.....	2 ATD	10 "	4 "
Sure Growth Superphosphate.....	2 TAt	8 "	2 "
Standard	1 Tt	9 "	3 "
Pennsylvania Potato Grower.....	1 ATt	8 "	2 "

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Scott Fertilizer Co., Elkton, Md.			
Special Grain Grower	1 ATt	8 R	1 K
Wheat and Grass (L. Gr.)	½ Tt	8 "	2 "
Crop Grower (L. Gr.)	2 TAt	8 "	0
Ground Raw Bone	4½	21.00*	0
Tip Top Soluble Phosphate	0	16	0
Soluble Phosphate and Potash	0	12 R	2 "
Soluble Phosphate and Potash	0	10 "	5 "
Swift & Co., Baltimore, Md.			
Hummer	7 NAT	6 RB	5 MKD
Early Potato Grower	5 "	8 "	5 "
Special Formula	5 "	8 "	3 "
Early Trucker	5 "	7 "	5 "
Canning Crop Fertilizer	4 "	8 "	4 "
High Grade Special	3 "	12 "	3 "
Southern Planters' Favorite	3 "	8 "	3 "
Champion Wheat and Corn Grower	2 "	12 "	2 "
Special Wheat and Corn Grower	2 "	10 "	4 "
Diamond "C" Fertilizer	2 "	8 "	4 "
Standard Potato Fertilizer	2 "	8 "	3 "
Red Steer	2 "	8 "	2 "
Truck and Vegetable Fertilizer	2 "	8 "	1 "
Royal Tomato Grower	2 "	7 "	5 "
Grain Fertilizer	1 "	8 "	2 "
Reliable Grain Fertilizer	1 "	8 "	1 "
Special Top Dresser	10 "	5 "	0
Top Dresser Formula No. 1	7 "	8 "	0
Special Truck Fertilizer	5 "	8 "	0
Truck and Potato Fertilizer	4 "	8 "	0
Special Diamond "A" Fertilizer	3 "	8 "	0
Clay Soil Special	2 "	12 "	0
Special Corn Grower	2 "	10 "	0
Spec. H. G. Phosphate and Potash	0	12 R	5 "
Monarch Phosphate and Potash	0	12 "	3 "
Wht. Grower Phosphate and Potash	0	12 "	2 "
Farmers' Home	0	10 "	4 "
Special Phosphate and Potash	0	10 "	2 "
Raw Bone Meal Fertilizer	4½ "	23.00*	0
Bone Meal Fertilizer	3 "	24.00*	0
Bone Meal and Phosphate Fertilizer	1 "	13 RB	0
High Grade Acid Phosphate Fertz	0	16	0
Garden City Phosphate Fertilizer	0	14	0
Nitrate of Soda	18.00	0	0
Tanners' Hide and Tallow Co., Inc., Hagerstown, Md.			
Animal Tankage	5	0	0
Bone Phosphate	2 T	8 RB	2 K
W. B. Tilghman Co., Salisbury, Md.			
Mixture "B"	4 NAFt	8 RF	4 MKD
H. G. Early Truck Guano	5 "	8 "	5 "
Irish P Guano	7 NAF	6 "	5 "
Special Topdressing (L. Gr.)	6 N	0	0
Fish, Bone and Potash	1 FBt	10 "	2 "
Standard Fish Mixture	2 NFt	10 "	2 "
Spec. Fish for Sweet Potatoes	2 "	7 "	5 "
High Grade Potato Fertilizer	3 "	6 "	6 "
High Grade Potash Mixture	2 "	8 "	10 "
Acid Phosphate	0	16	0
Va.-Carolina Chem. Co., Balto., Md.			
Best Truck and Vegetable Formula	4 TNACNat	10 R	6 SMKTDc
Best Crop Formula	2 "	10 "	6 "
Best Potato Formula	4 "	8 "	6 "
Eastern Shore Potato Special	7 "	6 "	5 "
Early Truckers' Special	5 "	6 "	5 "
Best Grain and Grass Formula	2 "	10 "	4 "
National Ammoniated Guano	1 "	8 "	4 "
Fish, Bone and Potash	2 "	8 RB	3 "
One, Nine, Three	1 "	9 R	3 "
Best Grain and Clover Mixture	2 "	12 "	2 "
Standard Crop Grower	2 "	8 "	2 "
Standard Grain Grower	1 "	8 "	2 "
Stand. Corn and Grain Grow. (L. Gr.)	½ "	8 "	2 "

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Va.–Carolina Chem. Co., Balto., Md.			
Special Compound	1 TNACNat	8 R	1 SMKTDc
Champion Manure (L. Gr.)	½ "	8 "	1 "
Fish and Bone Mixture	2 "	11 RB	0
Special Crop Formula	2 "	10 R	0
Special Fish Preparation	1 "	10 "	0
Star Crop Producer (L. Gr.)	½ "	10 "	0
Special Phosphate and Potash	0	10 "	5 "
Special Soluble Alk. Phos	0	12 "	3 "
Standard Phosphate and Potash	0	10 "	2 "
Phosphate and Potash (L. Gr.)	0	10 "	1 "
16% Acid Phosphate	0	16	0
14% Acid Phosphate	0	14	0
Westminster Fert. Co., Westminster, Md.			
Super–A	1 TNAC	8 R	1 KMDm
Leader	1 "	9 "	2 "
Governor	1½ "	10 "	2 "
Acid Phosphate	0	16	0
H. W. Whistler, Bel Air, Md.			
Dissolved Bone	2	10	0
Crop Grower	1 BT	8 RBT	3 MK
Fish, Bone and Potash (L. Gr.)	½ BTF	8 RBTF	¼ K
F. M. Wilson, Pocomoke City, Md.			
Favorite	5 FTN	8 RFT	5 MS
Peninsula	2 F	12 "	1 S
Witherbee, Sherman & Co., New York City			
Barium-Phosphate	0	28.00**	0
Ground Phosphate Rock	0	32.00**	0
A. S. Woolley Co., Inc., Seaford, Del.			
Strawberry Top Dressing	4 NT	8 R	3 D
Fish Mixture	2 TF	9 "	2 "
Truck Fertilizer	3 NTF	8 "	3 MD
Worcester Fert. Co., Inc., Snow Hill, Md.			
7% Guano	7 FTNA	6 RB	5 M
Early Trucker No. 1	5 "	8 "	5 "
Fish, Bone, Potash	2 FNTt	8 "	2 KD
Corn Producer	1 "	8 "	2 "
Gilt Edge Potato Mixture	4 FNTA	8 "	4 M
Fish and Potash Mixture	3 "	8 "	4 "
York Chemical Works, York, Pa.			
Grain Special	2 ANT	12 RT	2 MD
Standard Potash	1 "	8 "	4 "
One–Eight–Two	1 "	8 "	2 "
One–Eight–One	1 "	8 "	1 "
Prosperity	2 "	12 "	0
Crop Grower	1 "	10 "	0
Twelve and Four	0	12 "	4 "
Twelve and Two	0	12 "	2 "
Ten and Two	0	10 "	2 "
Acid Phosphate, 16%	0	16	0

FERTILIZERS FOR SALE IN MARYLAND.

Before selling fertilizers in Maryland the manufactures are required to register the various brands in the office of the State Chemist and state the materials from which the Ammonia, Available Phosphoric Acid and Potash are derived.

The list in Table II, page 24, is for fall registrations for 1920 received too late for publication in the August, 1920, bulletin. Table III, pages 25 to 34, is for fertilizers offered for 1921. In order to save space in printing, letters and symbols are used for the various materials, as per the following list:—

KEY TO SYMBOLS USED IN TABLES II AND III.

AMMONIA (Nitrogen)	PHOSPHORIC ACID AVAILABLE	POTASH SOLUBLE
A—Ammonium Sulfate	A—Animal Matter	a—Ashes
B—Bone	B—Bone	C—Cement by-product
b—Base Goods	b—Base Goods	K—Kainit
C—Cyanamid	F—Fish	M—Muriate
c—Crab Scrap	R—Dissolved Rock	m—Sheep Manure
D—Blood	c—Crab Scrap	N—Nebraska Potash (Sulfate and Carbonate)
F—Fish	m—Sheep Manure	S—Sulfate
H—Humus or Peat, Treated	T—Tankage	T—Tobacco Stems
K—Tobacco Stems	*Total Phosphoric Acid in Bone	k—Kelp
M—C. S. Meal	**Total Phosphoric Acid in Untreated Rock	t—Trona (California)
m—Sheep Manure		c—Carbonate
N—Nitrate Soda		B—Sugar Beet Res. Char.
Na—Nitrate of Ammonia		D—Double Manure Salt
T—Animal Tankage		s—Cottonseed-meal
t—Garbage Tankage		n—Nitrate of Potash
L—Linseed Meal		

THE GRADES OF FERTILIZERS USED IN MARYLAND.

The Fertilizer Tonnage reports for Maryland have recently been compiled and are given below for the year 1919. The figures for 1920 are not yet complete. While previous statistics are not available it is known that the tendency is to use better grades of fertilizers, or those with a higher analysis. It has not been many years since all the acid phosphate sold was of the 13 and 14% grades. Now nearly 90% of the total is the 16% grade. It is probable that a few years ago the most popular seller in the "complete" fertilizer class was the 1-8-1 formula. (1% ammonia, 8% available phosphoric acid and 1% potash) Now it is the 2-8-2, giving 12% of actual plant food. This should be raised to at least 14% of total plant food. It is real economy to use the high-analysis fertilizers. The following table does not include a small amount of nitrate of soda sold by the U. S. Government direct to farmers on which no report is made to the State Chemist. In the table the first column is the total amount of plant food,—the ammonia, available phosphoric acid and potash added together, though in many cases there were but two of these in the mixture. The last column is the number of tons sold during the year. Bone and acid phosphates are kept separate.

Per cent.	Tons.
3	2
4	123
5	201
6	631
7	69
8	339
9	9,294
10	17,930
11	26,341
12	40,439
13	22,244
14	9,283
15	6,280
16	6,614
17	835
18	695
19	950
20	1,366
Bone, raw and steamed, Phosphate only	3,253
10	206
12	78
13	1,050
14	2,300
16	21,109
Mixed to order	4,643
Ground raw rock	50
Total	176,325